



Trip report

12th Street Landfill Site Wilmington, New Castle Co., DE

12 May 2000

Prepared for
U.S. Environmental Protection Agency Region III
Removal Response Section
Philadelphia, PA







SITE ASSESSMENT TECHNICAL ASSISTANCE

EPA CONTRACT 68-S5-3002

12 May 2000

TDD No. 0001-90A

DCN F0000214

Mr. Mike Towle (3HS31)
On-Scene Coordinator
U.S. Environmental Protection Agency
1650 Arch Street
Philadelphia, PA 19103-2029

Subject: 12th Street Landfill Site - Trip Report

Dear Mr. Towle:

Enclosed is the 12th Street Landfill Trip Report, summarizing the results of 11-13 January 2000, 14 February 2000, and 22 February 2000 sampling events. Please feel free to contact me at (215) 238-0338, Ext. 245, regarding any aspect of this report.

Very truly yours,

ROY F. WESTON, INC.

Site Leader

Attachment

cc: TDD File

SATA0303961 TripReport2

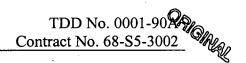
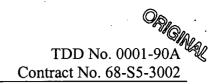


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TRIP REPORT





1.0 INTRODUCTION

On 8 July 1999, the Roy F. Weston, Inc. (WESTON®), Site Assessment Technical Assistance (SATA) team was directed by U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC) Mike Towle to conduct a removal assessment at the 12th Street Landfill Site (Site) located in Wilmington, New Castle County, Delaware. Sampling was conducted between 26 August and 2 September 1999.

On 13 December 1999, OSC Mike Towle tasked SATA to conduct additional sampling (phase A) at the Site to aid in the ecological assessment needed to support the environmental risk assessment. Additional sediment and soil samples were collected at the Site in order to further delineate the extent of contamination on and off site.

On 26 January 2000, OSC Mike Towle again tasked SATA to conduct sampling (phase B) at the Site to aid in the ecological assessment needed to support the environmental risk assessment. Additional sediment samples were collected near the Site in order to further delineate the extent of contamination on and off site. Soil samples were collected for bioassay analysis. The soil bio-assay analytical results were used to support the EPA's decision to use a specific type of erosion control measure along the stream bank depending on the toxicity results.

This trip report summarizes the findings for the 11-13 January 2000, 14 February 2000, and 22 February 2000 sampling events.

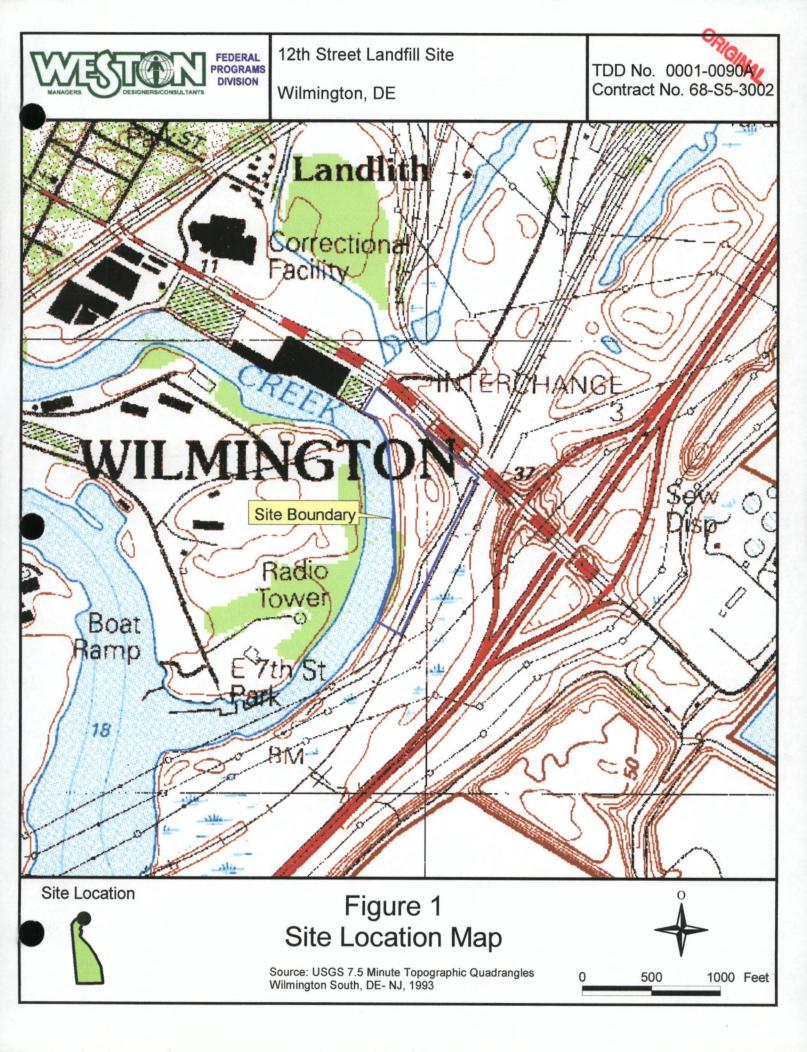
2.0 BACKGROUND

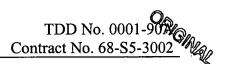
2.1 Location

The Site is located in Wilmington, New Castle County, Delaware, as seen in Figure 1, Site Location Map (Reference 1). The approximate site coordinates are 39° 44′ 15″ north latitude and 75° 31′ 35″ west longitude (Reference 2).

2.2 Site Description

The 12th Street Landfill Site is located in an industrial area on 12th Street, west of the Interstate-495 12th Street ramp, near Gander Hill Prison in Wilmington, New Castle County, Delaware. The Site consists of two land parcels. Parcel 19 (which contains the area of concern) is bordered to the west by Brandywine Creek, to the north by Asset Recovery Services, and to the east and south by state of Delaware owned land (parcel 14). Parcel 14 is bordered to the north by Gander Hill Prison, to the northeast by a Norfolk & Southern railroad yard, to the east and southeast by Norfolk & Southern railroad tracks (Shellpot Branch), and to the west by the Brandywine Creek and parcel 19 (see Figure 2, Site Plan) (Reference 3).





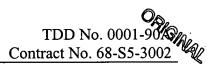
Julius Wemman previously owned parcel 19 until 1926. Between 1926 and 1930 the parcel was owned by the mayor and council of Wilmington. The Wilmington Economic Development Corporation owned the parcel from 1930 to 1987. This parcel is presently owned by the city of Wilmington. George W. Talley previously owned parcel 14 until 1887. Between 1887 and 1971, the parcel was owned by the Philadelphia, Baltimore, and Washington Rail Road Company. This parcel is presently owned by the state of Delaware Department of Transportation. There is no information on what the parcels were utilized for during previous ownerships. Apparently, the area of concern (AOC) was utilized as an unauthorized dump site, in which at least 14 55-gallon drums, rubber hoses, slag, and a light colored ash-like material were disposed of on the property (Reference 3). The company suspected of dumping, Electric Hose and Rubber, operated out of the Brandywine Industrial Complex located adjacent to the Site and ceased operations in 1977 (Reference 4).

The Site is relatively flat, with an average elevation of approximately 10 feet above sea level. The AOC is bounded to the west by the Brandywine Creek, which flows into the Christina River downstream of the Site. The Brandywine Creek has its headwater in the Piedmont Plateau in Pennsylvania, which defines the border between Chester County and Delaware County in Pennsylvania and enters Delaware just north of Beaver Valley. The creek meanders through Wilmington until it joins the Christina River which then joins the Delaware River southeast of Wilmington (Reference 5). The site is located adjacent to the tidally influenced part of the Brandywine Creek. The mean tide in the area is about 2.84 feet, with the mean range between high and low tide of 5.30 feet. Mean Higher High Water (MHHW) in the area is approximately 5.78 feet (Reference 6). The water supply for the Wilmington area is obtained from a surface water intake located 4,800 feet upstream of the Site along the Brandywine Creek (Reference 7).

During the removal assessment, both parcels were covered with thick vegetation consisting of tall phragmites and deciduous trees. Two drum cluster areas were identified. One drum cluster area is located in the northwestern area of parcel 19 adjacent to the Brandywine Creek (northwest side of the AOC). The second drum cluster area is located in the center of parcel 19 (southern side of the AOC).

2.3 Geologic Setting

The Geology of the Wilmington Area, Delaware Geologic Map Series Number 4 geologic map prepared by the Delaware Geologic Survey indicates that the 12th Street Landfill Site is located on the border of the Piedmont Physiographic Province and the Atlantic Coastal Plain. The contact, referred to as the fall line, is located approximately 2,000 feet north of the 12th Street Landfill Site (Reference 5).



The bedrock at the Site consists of metaigneous and metasedimentary rocks of the Wilmington Complex. The composition is primarily hypersthene-quartz-andesine gneiss with minor amounts of biotite and magnetite. Regolith overlying the bedrock of the area reportedly varies from 0-20 feet (Reference 5).

The unconsolidated aquifer overlying the bedrock generally forms at the base of the regolith, directly above the unweathered bedrock. The aquifer typically acts as an unconfined aquifer. The piedmont aquifers are complex and unpredictable due to the variability of fractures. The rock units of the Piedmont are relatively impermeable, except where weathering or fracturing has taken place (Reference 5).

Due to the variability of the regolith thickness and its limited vertical extent in the vicinity of the site, water yields are expected to be low. Groundwater at the site is tidal influenced. During the removal assessment, water levels in the test pits ranged between approximately 7 to 8 feet below ground surface (bgs) in the central and southern sections of the AOC to approximately 13 feet bgs in the northwestern section of the AOC. One test pit (18 feet deep) in the northern section of the AOC did not encounter any groundwater.

There are no public supply or private home wells that are used for either domestic or potable purposes located within four miles of the Site (Reference 7).

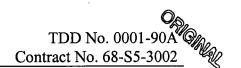
2.4 Climatic Setting

The annual average temperature in Wilmington is 54.6°F. The average monthly temperatures range from 35°F in January to 76°F in July. The average annual precipitation for Wilmington is 44.38 inches. The average monthly precipitation ranges from 2.72 inches in February to 5.34 inches in August. The mean annual lake evaporation for the area of the site is approximately 35 inches. The net annual precipitation for the site is approximately 9.38 inches. A two-year, 24-hour rainfall will produce approximately 3.3 inches of rain (Reference 8).

2.5 Regulatory History

During 14-16 June 1999, Delaware Department of Natural Resources and Environmental Control (DNREC) personnel conducted a site visit as part of a Brownfields Site Assessment Investigation for the eastern side of the Brandywine Creek, along 12th Street. During this site visit, DNREC collected surface soil samples on the Site. On 7 July 1999, DNREC updated city officials on their findings (Reference 4).

In July 1999, the EPA was notified by DNREC to investigate what appeared to be drums containing hazardous materials at the Site.



In late August and early September 1999, OSC Towle began conducting a removal assessment of the property to determine if further federal actions were warranted at the 12th Street Landfill Site.

3.0 SITE ACTIVITIES

During 11-13 January 2000, additional samples (phase A) were collected at the 12th Street Landfill Site. Twenty-eight surface soil samples (excluding duplicates) were collected within the AOC, located on parcel 19, and off the Site. Nine subsurface soil samples (excluding duplicates) were collected within the AOC. Thirty-two sediment samples (excluding duplicates) were collected from the eastern edge (mudflat) of the Brandywine Creek adjacent to the Site. Sample locations are illustrated on Figure 3, Environmental Sample Location Plan. All of the samples collected were analyzed by the DNREC X-ray fluorescence (XRF) instrument. In addition, 20% of the samples (randomly chosen) were analyzed for lead by a Contract Laboratory Program (CLP) for confirmation and 10 randomly chosen samples were analyzed for Target Analyte List (TAL) metals and Target Compound List (TCL) semivolatiles. SATA members Paul Davis, Myles Bartos, and Eric Bailey conducted the field work and sampling. OSC Mike Towle was also on site during the field activities.

On 14 February 2000, additional samples (phase B) were collected at the Site. Five soil samples (0 to 12-inch depth) were collected at the Site for bio-assay analysis. On 22 February 2000 (also phase B), 20 sediment samples were collected from the eastern edge (mudflat) of the Brandywine Creek adjacent to the Site. SATA members Paul Davis and Jason Petracci conducted the field work and sampling. OSC Mike Towle was also on site during the field activities.

3.1 Site Conditions and Observations

Weather conditions during the phase A sampling event on 11 and 12 January were cool, with temperatures between 40°F and 45°F, and partly sunny skies. Weather conditions on 13 January were cool, with temperatures between 40°F and 45°F, and light to moderate rain. Weather conditions during the phase B sampling event on 14 February 2000 were cool, with temperatures between 40°F to 45°F, and light to moderate rain. Weather conditions on 22 February were sunny, cool, with temperatures in the low 50°F, and breezy. The Brandywine Creek was covered with thick ice during the 14 February sampling event, which impeded the sediment sampling activities.

3.2 Sampling Activities

During the first phase of the additional sampling in mid January surface soil sample locations were set up on a grid within the AOC, as outlined in the SATA 12th Street Landfill Site Sampling Plan (Reference 9). The grid nodes were set at 100-foot spacings north to south and 50-foot spacings west to east. Twenty surface soil samples were collected within the AOC. Three surface soil samples were collected south of the AOC each 100 feet apart. Two surface soil samples

were collected 200 feet apart south of the previously mentioned locations and three surface soil samples were collected 100 feet east of the AOC. Eight subsurface soil samples were collected within the AOC and one subsurface soil sample was collected east of the AOC. The subsurface soil samples were located at the same locations as the surface soil samples and were randomly picked. Thirty two sediment samples were collected from the eastern edge (mudflat) of the Brandywine Creek adjacent to the Site. The sediment sample locations were collected at spacing intervals of 50 feet along the eastern side of the Creek, during low tide. The sample locations were staggered to eliminate any large gaps between the locations.

On 14 February and 22 February 2000, additional samples (phase B) were collected at the Site. Five soil samples (0 to 12 inches) were collected on and off the Site. The soil samples were collected from previous soil sample locations in the area of concern and collected from the locations that ranged from the lowest to the highest lead results. A sample was also collected and used as a background sample. The soil samples were analyzed for 14-day acute test on earthworms (bio-assay parameter) as well as TAL metals, TCL semivolatiles, and pesticides/polychlorinated biphenyls (PCBs).

Twenty sediment samples were collected from the eastern edge (mudflat) between the creek bank and the riprap line along the eastern side of the Brandywine Creek, adjacent to the Site. The sediment sample locations were located at previous sediment sample locations and biased toward the locations with elevated lead results. A sample was obtained from a depth of 6 inches and 12 inches at each location. The sediment samples were analyzed by the DNREC XRF instrument. In addition to the sample collection, another objective of the sediment sampling was to determine the thickness of the sediment deposits over the mudflat layer.

Laboratory quality assurance and quality control samples were collected during the phase A sampling event as well as one field blank sample and one rinsate blank sample. See Attachment 2, Sample Log Sheets, for sample descriptions.

All samples were handled and packaged in accordance with the sampling plans. The phase A sampling event organic samples were shipped via Federal Express to Envirosystems, Inc. in Columbia, Maryland for analysis. The phase A inorganic samples were shipped via Federal Express to Southwest Labs of Oklahoma in Broken Arrow, Oklahoma for analysis. The phase B sampling event organic and inorganic samples were shipped via Federal Express to Compuchem Laboratory in Cary, North Carolina. The soil bio-assay samples were shipped via Federal Express to Envirosystems, Inc. located in Hampton, New Hampshire.

4.0 ANALYTICAL RESULTS

Table 1, Industrial Soil Risk-Based Concentrations (RBC) Exceedances, summarizes all of the compounds that exceeded industrial soil RBCs and their location for surface and subsurface soil samples (Reference 10).

TRIP Report

Figure 2

(Oversupol map)

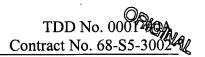


Table 1
Industrial Soil RBC Exceedances

Chemical	RBC	TS-SS-08	TS-SS-09	TS-SS-10	TS-SS-12	TS-SS-13	TS-SS-15	TS-SS-17
Arsenic	3.8	107	50.2	86.5	23.5	47.7	86.9	105
Chromium	613.2			759 J	**			
Iron	61,000	64,800				77,800 J	98,100 J	112,000 J
Lead	400	6,890 J	33,500 J	9,330 J	7,780 J	3,660	1,690	7,790

Chemical	RBC	TS-SS-18	TS-SS-21	TS-SS-24	TS-SS-34	TS-SS-35	TS-SS-36	TS-SS-37
Arsenic	3.8	93.7	83.6	12.2	73.9	114	18.9	17.4
Chromium	613.2				-			
Iron	61,000	100,000 J	102,000 J		61,700	75,000		
Lead	400	3,970	2,400	521	7,350	13,400	22,600	566

Chemical	RBC	TS-SB-08	TS-SB-12	TS-BG-02	TS-BG-03	TS-BG-04	TS-FD-02
Arsenic	3.8	60.7	17.7	8.5	5.3	13.8	71.6
Chromium	613.2			 .			
Iron	61,000						82,800
Lead	400	22,300		,			73,000

All units are in mg/kg.
--- = Not detected.

J = Analyte present. Reported value may not be accurate or precise.

TS-FD-02 is a field duplicate of sample TS-SS-09.

Arsenic exceeded its RBC in 20 soil samples including one duplicate (Reference 9). There is no RBC for lead in soil. The value of 400 mg/kg was used for comparison purposes and is based on the EPA residential soil screening value. Lead exceeded its screening value in 16 soil samples. Nine soil samples showed levels of iron higher than the RBC for that compound. Levels of chromium were higher than the RBC in one soil sample.

Table 2, Industrial Sediment RBC Exceedances, summarizes all compounds exceeding RBC levels and their locations. Two sediment samples showed levels of arsenic higher than those recommended by industrial RBCs (Reference 10).

Table 2
Industrial Sediment RBC Exceedances

Chemical	RBC	TS-SED-11	TS-SED-23	
Arsenic	38	62.1 J	56.9 J	

All units are in mg/kg.

J = Analyte present. Reported value may not be accurate or precise.

Due to existing boat traffic and recreational use of the Brandywine Creek, all sediment samples were also compared to residential RBCs. Table 3 summarizes locations and levels of concentrations exceeding residential RBCs.

Table 3 Residential Sediment RBC Exceedances

	RBC	TS-SED-07	TS-SED-10	TS-SED-11	TS-SED-14	TS-SED-15	TS-SED-17
Arsenic	4.3	23	9.5	62	4.6	6.7	9.7

	RBC	TS-SED-18	TS-SED-19	TS-SED-23	TS-SED-27	TS-SED-28	TS-SED-29
Arsenic	4.3	29.2	4.7	56.9	11	9.7	9.2

All units are in mg/kg.

All of the sediment sample locations showed elevated levels of arsenic, exceeding recommended RBCs (Reference 10). None of the surface soil, subsurface soil, or sediment samples exceeded any of the ERG values (Reference 10).

Table 4 summarizes results of the evaluation of toxicity of soil samples to the earthworm (Eisenia foetida).

Table 4
Toxicity Evaluation Summary

Compound	SS-34	SS-35	SS-36	SS-37	BG-04
Mean Survival (%)	72	72	84	85	83

Laboratory control for these samples had a 93% survival rate. This result might suggest that contaminant toxicity is responsible for elevated mortality levels in soil samples. However, laboratory control soil was significantly different from that collected on the site location, and therefore survival rates should be compared with caution. Background sample BG-04 was collected on site and is representative in terms of soil characteristics. When compared to the background sample, survival rates are not significantly different in BG-04 and four soil samples.

Toxicity results can be correlated with analytical data for concentrations of contaminants at each location. It was observed that increasing mortality occurred in locations with elevated levels of arsenic and chromium, while lead and copper, even at high concentration, did not statistically influence survival rates.

5.0 FUTURE ACTIONS/RECOMMENDATIONS

Following a review of the analytical results and consultation with EPA's ecological risk assessment experts and WESTON design group, the OSC will approve means of site and river bank stabilization.

6.0 REFERENCES

1. Streets 98. Microsoft, 1998.

- 2. USGS (U. S. Geological Survey). 1987. Wilmington South, DEL-NJ. Topographic Map. DM 5863 II NE-series V821 N4022.5-W7530/7.5.
- 3. Ticor Title Insurance Company. 1999. Title Search for East 12th Street Landfill Site. Parcel numbers 14, 17, and 19. 10 August.
- 4. Breslin, A. 1999. Delaware Department of Natural Resources and Environmental Control, Wilmington, DE. Telephone conversation with Paul Davis, WESTON SATA. Delran, NJ. 19 November.
- 5. WIK Associates Inc. 1996. Remedial Investigation Report Diamond State Salvage. Wilmington, DE. August.
- 6. Roy F. Weston, Inc., Site Assessment Technical Assistance. 1999. Wilmington Drum ATSDR Package. Delran, NJ.
- 7. Daily Tide and Current Predictions. 2000. [online]. Tide Christina River, Delaware, Millside RR Bridge. [www.tides.com][cited 10 May 2000].
- 8. NOAA (National Oceanic and Atmospheric Administration). 1993. Climatic Atlas of the United States. Asheville, NC.
- 9. Roy F. Weston, Inc. Site Assessment Technical Assistance. 1999. 12th Street Landfill Site Sampling Plan. Delran, NJ. 22 December.
- 10. U.S. Environmental Protection Agency. 1999. EPA Region III Risk-Based Concentration Table. Philadelphia, PA. 7 October.

ATTACHMENTS:

- 1 Sample Log Sheets
- 2 Sample Data Summary
- 3 Photograph Log

Figure 3 (oversyd map)

ATTACHMENT 1 SAMPLE LOG SHEETS

SOIL SAMPLE LOG SHEET	SATA REGION III
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <u>75-55-07</u>
PCS No.: 6090	DATE: 1/ ///2000
WEATHER: Partly Sonny, Coo	1.500 words
SATA PERSONNEL: (b) (4)	, , , , , , , , , , , , , , , , , , , ,
Surface Soil Subsurface Soil Wa	ste Other
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground	Description:
surface.	· · · · · · · · · · · · · · · · · · ·
Sample Date and Time: 1/ 1/2000	Silty - organic
@ 1410	wood.
Sampled by: (b) (4)	
Signature(s):	
Paul m. Ge	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 16.252202055"
High Concentration	
Grab	West: 75° 31' 34.287615/06"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	·
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide ' 4° C	
DNREC XRF Instrument 4° C	,
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	
May pathony near	
ARS fence line.	

Sample No.____

OFIGINAL

SOIL SAMPLE LOG SHEET	SATA REGION III
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-55-08
PCS No.: 6090	DATE: 1/ i1/2000
WEATHER: fartly Sunn 1, cool,	
SATA PERSONNEL: (b) (4)	
Surface Soil Subsurface Soil Wa	ste 🗆 Other
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Description:
Depth Sampled: 0 to 6 inches below ground	Description:
surface.	Description: Organic Silty (routs)
Sample Date and Time: 1/11/2000	- .
Sampled by: (b) (4)	
Sampled by.	
Signature(s):	·
font in Das	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 15.630108816"
☐ High Concentration	· ·
Grab	West: 75° 31' 34.29053335"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C ☐ Cyanide 4° C	
☐ Cyanide 4°C ☐ DNREC XRF Instrument 4°C	
□ Lead only 4° C	
Lead only	
☐ Duplicate Sample Taken	
Observations and Notes:	1
Collected along face of	
bank	
continue for TAL metas / STOA	

SOIL SAMPLE LOG SHEET	SATA REGION III
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-55-08
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Partly Suny, win	dy, (001, 500
SATA PERSONNEL: (b) (4)	
Surface Soil Subsurface Soil Wa	ste 🗆 Other
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Description:
Depth Sampled; 0 to 6 inches below ground surface.	
Sample Date and Time: 1/1/2000	Organic Silty (routs)
Q 1415] 3 (22243)
Sampled by: (b) (4)	
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 15.630108816"
☐ High Concentration ☐ Grab	West: 75° 31' 34. 29053335"
☐ 5-Point Composite	West. 75 31 54.470533355
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
TCL SVOAs 4° C	,
☐ TCL Pesticides/PCBs 4° C	
TAL Metals 4° C	
☐ Cyanide 4° C	· . '
☐ DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	<i>y</i>
CLP Nos. <u>MCYJ57</u> (x656	
Confirmation Sample.	
collected along face of bank.	
Background Sample	
· ·	

OFIGINE

SOIL SAMPLE LOG SHEET	SATA REGION III
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <i>TS-ss-09</i>
PCS No.: 6090	DATE: 1/ 11/2000
WEATHER: Partly Sunny, Coa	
SATA PERSONNEL: (b) (4)	
Surface Soil Subsurface Soil V	Vaste Other
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dark brown
Depth Sampled: 0 to 6 inches below ground	•
surface.	organic (roots)
Sample Date and Time: 1/11/2000	anguier pessing 5,1+
Sampled by: (b) (4)	·
Signature(s):	-
Paul m. Don	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 14.700286828"
High Concentration	3. 44 /4. 100 286828
Grab	West: 75° 31' 33,753570759"
☐ 5-Point Composite	
Analysis Preservative	→ `
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	- · · · ·
	-
Duplicate Sample Taken (000-04)	┥
Observations and Notes:	-
·	·
collected along bank of	
Crux / AII.	
	·

ONGALL

SOIL SAMPLE LOG SHEET SATA REGION III SITE NAME: 12th Street Land Fill Site SAMPLE No.: 75-55-09 PCS No.: 6090 DATE: 1/ 1/ /2000 WEATHER: Partly Sunny Coul, 500 windy SATA PERSONNEL: (b) Surface Soil □ Subsurface Soil □ Waste □ Other Sample Method: Disposable plastic trowel Color: and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. Organic Soit of peobles Sample Date and Time: 1/1/2000 @ 1430 Sampled by: P(b) (4) Signature(s): Sample Type **GPS Coordinates:** North: 39° 44' 14,700 286828" Low Concentration ☐ High Concentration West: 75° 31' 33.753570759" Grab ☐ 5-Point Composite Analysis Sample Location Map: Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C Lead only (TAL metals 4° C FD-0Z Duplicate Sample Taken **Observations and Notes:** CLP No. MLY J58 FD-02 MCY597 Confirmation Sample. collected along face of

bank / fill.

Sample	e No.	

ONG NAME

SOIL SAMPLE LOG SHI	EET	SATA REGION III
SITE NAME: 12th Street Land	I Fill Site	SAMPLE No.: 75-55-10
PCS No.: 6090	1	DATE: 1/ // /2000
	-	500 windy
SATA PERSONNEL: (b) (4)		
		
Surface Soil Subsurface	e Soil □ Wa	ste Other
Sample Method: Disposable p	lastic trowel	Color:
and disposable aluminum pan.		Dark brown
Depth Sampled: 0 to 6 inches	below ground	Description:
surface.		organic sett (roots)
Sample Date and Time: 1/11/	2000	
(b) (4)		Some quartz pesses
Sampled by: (b) (4)		
Simulation (a)		
Signature(s):		
		GPS Coordinates:
Sample Type Low Concentration		
☐ High Concentration		North: 39° 44' 13.758278796"
Grab		West: 75° 31′ 33.8 3 6483454"
5-Point Composite		75 57 55. 6 2 6105161
	Preservative	Sample Location Map:
☐ TCL VOAs	4° C	
☐ TCL SVOAs	4° C	
☐ TCL Pesticides/PCBs	4° C	
☐ TAL Metals	4° C	
☐ Cyanide	4° C	,
DNREC XRF Instrument	4° C	·
☐ Lead only	4° C	· ·
		·
		·
☐ Duplicate Sample Taken		
Observations and Notes:		
-corrected from face	of bank H	/
Collected - Confirmation		_
whils and 5004		
		;

SOIL SAMPLE LOG SHEET	SATA REGION III
COMPANY OF TOTAL OF THE TRUE OF	CAMPLENG. 76
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-55-10
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Partly Sunny, Louis	50 Windy
SATA PERSONNEL: (b) (4)	
Surface Soil Subsurface Soil Wa	ste 🗆 Other
Sample Method: Disposable plastic trowel and disposable aluminum pan.	Color: Dark brown
Depth Sampled: 0 to 6 inches below ground	Description:
surface.	<u> </u>
Sample Date and Time: 1/1/2000	Some quarte posses
1450	Some quarte posses
Sampled by: (b) (4)	
	·
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 13.758278796'
☐ High Concentration ☐ Grab	West: 75° 31′ 33.826 483 454′′
☐ 5-Point Composite	West: 75 57 35,826 785 457
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	•
TAL Metals 4° C	·
☐ Cyanide 4° C	
☐ DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	
CLP Nos. MCYJ59/CX657	
Confirmation Sample.	
collected along fact of	
Background Sample bank/full.	

OPIGINAL

SOIL SAMPLE LOG SHEET	SATA REGION III
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <i>TS-55-11</i>
PCS No.: 6090	DATE: <u>1/ ///2000</u>
WEATHER: Partly Sunny, win	dy, cool, 50°
SATA PERSONNEL: (b) (4)	
Surface Soil Subsurface Soil Wa	ste 🗆 Other
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dark brown
Depth Sampled: 0 to 6 inches below ground	Description:
surface.	Silt (organic) rocks
Sample Date and Time: 1/11/2000	
0 1510	·
Sampled by: (b) (4)	
	;
Signature(s):	
	CDC Clim.t
Sample Type	GPS Coordinates:
Low Concentration	North: 390 44' 12.85 4002256"
High Concentration	· ·
Grab	West: 75° 31' 33.713755261"
5-Point Composite	Cample Leastion Man
Analysis Preservative ☐ TCL VOAs 4° C	Sample Location Map:
☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C	
☐ TCL SVOAS 4 C	1
☐ TAL Metals 4° C	
☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C	
□ Lead only 4° C	
Lead only 4 C	
	,
☐ Duplicate Sample Taken	
Observations and Notes:	
collected along bank of	
Concerts away bank of	
fell and creek.	
,	·

SOIL SAMPLE LOG SHEET SATA REGION III SITE NAME: 12th Street Land Fill Site SAMPLE No.: 75-55-12 PCS No.: 6090 DATE: 1/_// /2000 Partly Sungy, 1001, 500, windy WEATHER: SATA PERSONNEL: Surface Soil Subsurface Soil Waste Other Sample Method: Disposable plastic trowel Color: whiteish - moiticolors and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: Ashy substance (cinders) Wires, hose, and scrops surface. Sample Date and Time: 1/1/2000 C 1515 Sampled by: Signature(s): Sample Type **GPS** Coordinates: North: 39° 44' 11,999769786" Low Concentration ☐ High Concentration West: 75° 31' 33 524453173" Grab □ 5-Point Composite **Analysis** Sample Location Map: **Preservative** ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C 4° C ☐ TCL Pesticides/PCBs ☐ TAL Metals 4° C ☐ Cyanide 4° C DNREC XRF Instrument 4° C ☐ Lead only 4° C PNRE-Duplicate Sample Taken Dup-05 **Observations and Notes:** also collected contient TAL metals / Suna

Collected stony but Acce of

bank/ All,

Sample	Nο	
Samble	110.	

SOIL SAMPLE LOG SHEET	SATA REGION III
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-55-12
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Partly Sound, coul,	500, windy
SATA PERSONNEL: (b) (4)	
Surface Soil □ Subsurface Soil □ Wa	ste 🗆 Other
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	
Depth Sampled: 0 to 6 inches below ground	Description:
surface.	
Sample Date and Time: 1/11/2000	
(N 1515	
Sampled by: (b) (4)	
	·.
Signature(s):	
faul US	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 11.949 769 786"
☐ High Concentration	0 21 22 52:11/52:22(
Grab	West: 75° 31' 33.524453113''
☐ 5-Point Composite	D. T. W. Marine
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
TAL Metals 4° C	
☐ Cyanide 4° C	
□ DNREC XRF Instrument 4° C	·
☐ Lead only 4° C	
Duplicate Sample Taken Day	T ·
Observations and Notes:	
CLP Nos. MCYT62/CX658	
Confirmation Sample.	
Background Sample (silectal along fuce of Lank Gill	
MICH UT WANK/HII	<u> </u>

SOIL SAMPLE LOG SHEET	SATA REGION III
	GANGE EN
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-28-13
PCS No.: 6090	DATE: <u>1/ /2 /2000</u>
WEATHER: Partly Sunny, (00) SATA PERSONNEL: (b) (4)	, 90", 6:2029
SATA PERSONNEL:	
Surface Soil Subsurface Soil Wa	ste 🗆 Other
Sample Method: Disposable plastic trowel and disposable aluminum pan.	Color: Dajk brown
Depth Sampled: 0 to 6 inches below ground	Description:
surface.	
Sample Date and Time: 1/12/2000	S. 1 + lorganic) roots
@ 1230	Some Small rounded person
Sampled by: (b) (4)	
Signature(s):	
faulm. Qs	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 15,6034 23397"
High Concentration	
Grab	West: 75° 31′ 33.804730399″
5-Point Composite	Sample Leastion Man:
Analysis Preservative ☐ TCL VOAs 4° C	Sample Location Map:
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	, ,
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	
confirm Memetals here	
- Subsurface also collected	
here	
<u> </u>	

SOIL SAMPLE LOG SHEET	SATA REGION III
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: SS-13
PCS No.: 6090	DATE: <u>1/12 /2000</u>
WEATHER: Partly Sunny, Coal,	400 6:427
SATA PERSONNEL: (b) (4)	
Surface Soil □ Subsurface Soil □ Wa	aste Other
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dark brown
Depth Sampled: 0 to 6 inches below ground	Description:
surface.	(14 (22)
Sample Date and Time: 1/12/2000	Silt (organics) roots
@ 1230	Some Small rounded pessie
Sampled by: (b) (4)	100 noved pible
	·
Signature(s):	
faulm Lo	
Sample Type	GPS Coordinates:
Low Concentration	North: 390 44' 15.603423397'
High Concentration	W . 2-0 21 22 CM 22 12648
☐ Grab ☐ 5-Point Composite	West: 75° 31′ 33.804730394"
= 3 Tomic Composite	
Analysis Preservative	Sample Location Map:
TCL VOAs 4° C	
☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
La Cyanide 4 C	,
DNREC XRF Instrument 4° C Lead only (TAL what) 4° C	
Lead only (TAC metals) 4°C	
•	
☐ Duplicate Sample Taken	
Observations and Notes:	
CLP No. mcy T69	
CLF No. MCC1 J J I	
Confirmation Sample.	
·	
- Subsurface also collected him	
	,

PARIEINAL

SOIL SAMPLE LOG SHEET	SATA REGION III
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-55-14
PCS No.: 6090	DATE: <u>1/ /2 /2000</u>
WEATHER: furthy Sunny, cool SATA PERSONNEL (6) (4)	, 42° Bruzy
SATA PERSONNEL 101 (1)	
Surface Soil Subsurface Soil Wa	ste Other
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground	Description:
surface.	Description.
Sample Date and Time; 1/12/2000	Description: Silt (Some organics)
(D) 1240	-
Sampled by: (b) (4)	
Signature(s):	· · · · · · · · · · · · · · · · · · ·
	GPS Coordinates:
Sample Type Low Concentration	North: 39° 44′ 14.670957185″
High Concentration	Notice 57
Grab	West: 75° 31′ 33.50363339″
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C ☐ Cyanide 4° C	
☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
Lead only 7 C	
☐ Duplicate Sample Taken	
Observations and Notes:	
- Subsi-face soil sample also he	
1 - 4150	
. 1	
	l

SATA REGION III SOIL SAMPLE LOG SHEET SAMPLE No.: 75-25-15 SITE NAME: 12th Street Land Fill Site DATE: 1/12/2000 PCS No.: 6090 WEATHER: Partly Sunny, cool, 400, 6 mizy SATA PERSONNEL: (b) (4) Surface Soil Subsurface Soil Waste Other Sample Method: Disposable plastic trowel Color: Dark brown and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. Silt - lorganics) Sample Date and Time: 1/12/2000 Small Subangular pebbics @ 1245 Sampled by: Signature(s): **GPS** Coordinates: Sample Type North: 39° 44' 13.707885779" Low Concentration ☐ High Concentration West: 750 31 33,255082156" Grab ☐ 5-Point Composite **Analysis** Preservative Sample Location Map: ☐ TCL VOAs 4° C 4° C ☐ TCL SVOAs ☐ TCL Pesticides/PCBs 4° C 4° C ☐ TAL Metals 4° C ☐ Cyánide 4° C DNREC XRF Instrument 4° C ☐ Lead only ☐ Duplicate Sample Taken **Observations and Notes:** - Susso-face also corrected here - corrected confirm racompuls

Sample No. ______

OFIGINAL

SATA REGION III SOIL SAMPLE LOG SHEET SITE NAME: 12th Street Land Fill Site SAMPLE No.: 75-55-15 DATE: <u>1/ /2/2000</u> PCS No.: 6090 WEATHER: Partly Sung, 1001, 400 SATA PERSONNEL: (b) (4) Surface Soil Subsurface Soil Waste Other Sample Method: Disposable plastic trowel Color: Dack brown and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. Gilt - organics Sample Date and Time: 1/12/2000 @ 1245 Small Subangular pebbes Sampled by: Signature(s): faul We Sample Type **GPS** Coordinates: North: 390 44' 13, 707 585 779' Low Concentration ☐ High Concentration West: 75° 31' 33.255082156" Grab ☐ 5-Point Composite Sample Location Map: Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide ☐ DNREC XRF Instrument 4° C Lead only FIAL metals 4° C ☐ Duplicate Sample Taken **Observations and Notes:** CLP No. MCY J70 Confirmation Sample. Sussified also ised

Samp	le	No.			

SOIL SAMPLE LOG SHEET	SATA REGION III
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 73-55-16
PCS No.: 6090	DATE: 1/ /2/2000
WEATHER: Partly Sunny look	40°, briezy
SATA PERSONNEL: (b) (4)	
Surface Soil Subsurface Soil Wa	ste 🗆 Other
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	
Depth Sampled: 0 to 6 inches below ground surface.	Description:
Sample Date and Time: 1/12/2000	,
@ 1255	
Sampled by: P(b) (4)	
Signature(s):	
full mints	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 12.720240405"
☐ High Concentration	
Grab	West: 75° 31′ 33.04677756″
☐ 5-Point Composite	<u> </u>
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
TCL SVOAs 4° C	·
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C ☐ Cyanide 4° C	,
<u> </u>	·
DNREC XRF Instrument 4° C Lead only 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	
Observations and rotes.	
Subserface also here.	
·	·
•	

SOIL SAMPLE LOG SHI	EET	SATA REGION III
SITE NAME: 12th Street Land PCS No.: 6090 WEATHER: Partif So. SATA PERSONNEL: (b)	114, 6001	SAMPLE No.: <u>TS-55-17</u> DATE: <u>1/12/2000</u>
Surface Soil Subsurface	e Soil 🔲 Wa	ste
Sample Method: Disposable p and disposable aluminum pan. Depth Sampled: 0 to 6 inches surface. Sample Date and Time: 1/12/ 1300 Sampled by: (b) (4) Signature(s): Jaulin Disposable p and disposable aluminum pan. Sample Type Low Concentration High Concentration Grab	below ground	Color: Dark Grown Description: 5:14 - Some motting (gray) Some Subangular publics GPS Coordinates: North: 396 44' 11.996036953'' West: 750 31' 32.804055745''
☐ 5-Point Composite		
	Preservative	Sample Location Map:
☐ TCL VOAs	4° C 4° C	
☐ TCL SVOAs ☐ TCL Pesticides/PCBs	4° C	
☐ TAL Metals	4° C	
☐ Cyanide	4°.C	
DNREC XRF Instrument	4° C	
☐ Lead only	4°C	
Duplicate Sample Taken Observations and Notes: confirm for the metal	Is hure	

SATA REGION III SOIL SAMPLE LOG SHEET SITE NAME: 12th Street Land Fill Site SAMPLE No.: 75-25-17 DATE: 1/ /2/2000 PCS No.: 6090 WEATHER: Partly Sund, Lool, 40° breezy SATA PERSONNEL: (b) (4) Surface Soil Subsurface Soil Waste Other Sample Method: Disposable plastic trowel Color: Dark Grown and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. SIIt - Some mothing (9-e1) Sample Date and Time: 1/12/2000 @ 1300 Some Subanquior pubbles Sampled by: (b) (4) Signature(s): Paul Dis Sample Type **GPS Coordinates:** North: 396 44' 11.996036953" Low Concentration ☐ High Concentration West: 75-0 31 32.804055745" Grab. ☐ 5-Point Composite Analysis Preservative Sample Location Map: ☐ TCL VOAs 4° C 4° C ☐ TCL SVOAs ☐ TCL Pesticides/PCBs 4° C 4° C ☐ TAL Metals ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C Lead only (THE netals) 4° C ☐ Duplicate Sample Taken **Observations and Notes:** CLP No. _ MCYJ71 Confirmation Sample.

Samp	le i	No.	

SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <u>75-35-18</u>					
PCS No.: 6090	DATE: <u>1//Z/2000</u>					
WEATHER: Partly Sunny, cool	, 400, breezy					
SATA PERSONNEL: (b) (4)						
Surface Soil Subsurface Soil Waste Other						
Sample Method: Disposable plastic trow	el Color:					
and disposable aluminum pan. Depth Sampled: 0 to 6 inches below groups						
surface.	•					
Sample Date and Time: 1/12/2000	Sandy Silt longanics/routs)					
(310	.					
Sampled by: (b) (4)	Small Subrounded quartz					
Sampled by:	pebbies,					
Signature(s):						
Pane Da						
Sample Type	GPS Coordinates:					
Low Concentration	North: 390 44' 12,748023117"					
☐ High Concentration	31 14 12:178023117					
Grab	West: 75° 31' 32, 244612805"					
5-Point Composite	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Analysis Preservat	ive Sample Location Map:					
☐ TCL VOAs 4°	<u>C</u>					
	°C					
☐ TCL Pesticides/PCBs 4°	<u>'C</u>					
	<u>C</u>					
	<u>C</u> ,					
	<u>C</u>					
☐ Lead only 4°	<u>°C</u>					
D. Dunkasta Cample Takan						
☐ Duplicate Sample Taken Observations and Notes:	 					
Observations and Notes:						
terminis here						
	. ,					

SOIL SAMPLE LOG SHEET

SATA REGION III

PCS No.: 6090 WEATHER: Partly Sunny; (oct, You, brutzy) SAMPLE No.: 73-33-78 DATE: 1/12/2000							
SATA PERSONNEL: (b) (4)							
Surface Soil Subsurface Soil Waste Other							
Sample Method: Disposable plastic trowel and disposable aluminum pan.	Color: Oark brown -						
Depth Sampled: 0 to 6 inches below ground	Description:						
surface.	Sandy Silt						
Sample Date and Time: 1/12/2000	(organics/roots)						
Sampled by: (b) (4)	Small Subroanded quarte						
Signature(s):	pesous						
Sample Type	GPS Coordinates:						
Low Concentration	North: 396 44' 12.748023 117"						
☐ High Concentration							
Grab	West: 75° 31' 32.244612805"						
5-Point Composite	O I I						
Analysis Preservative	Sample Location Map:						
AnalysisPreservative□ TCL VOAs4° C	Sample Location Map:						
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C	Sample Location Map:						
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C	Sample Location Map:						
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C□ TAL Metals4° C	Sample Location Map:						
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C□ TAL Metals4° C□ Cyanide4° C	Sample Location Map:						
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C□ TAL Metals4° C□ Cyanide4° C□ DNREC XRF Instrument4° C	Sample Location Map:						
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C□ TAL Metals4° C□ Cyanide4° C	Sample Location Map:						
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C□ TAL Metals4° C□ Cyanide4° C□ DNREC XRF Instrument4° C	Sample Location Map:						
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only (THL nubuls) 4° C	Sample Location Map:						
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only (THL nubuls) 4° C	Sample Location Map:						
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only (THL nubuls) 4° C	Sample Location Map:						
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C □ Lead only (THL nubuls) 4° C □ Duplicate Sample Taken Observations and Notes:	Sample Location Map:						
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only (THL nutul s) 4° C ☐ Duplicate Sample Taken Observations and Notes: CLP No. MC Y J 72	Sample Location Map:						

SOIL SAMPLE LOG SHEET	SATA REGION III					
SITE NAME: 12th Street Land Fill Site PCS No.: 6090 WEATHER: Partly Juney, (001, 40°, breezy SATA PERSONNEL: (b) (4) SAMPLE No.: 75-55-19 DATE: 1/12/2000						
Surface Soil Subsurface Soil Waste Other						
Sample Method: Disposable plastic trowel and disposable aluminum pan.	Color: Dark brown					
Depth Sampled: 0 to 6 inches below ground	Description:					
Sample Date and Time: 1/12/2000	Silt w/ organics.					
Sampled by: (b) (4)						
Signature(s): faul m. D.						
Sample Type	GPS Coordinates:					
Low Concentration	North: 390 44' 12,700 467 646"					
☐ High Concentration						
Grab	West: 75-0 31 32.536878685"					
☐ 5-Point Composite	, man					
Analysis Preservative	Sample Location Map:					
☐ TCL VOAs 4° C						
☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C						
☐ TAL Metals 4° C						
☐ Cyanide 4° C	•					
DNREC XRF Instrument 4° C						
☐ Lead only 4° C						
	•					
	,					
☐ Duplicate Sample Taken						
Observations and Notes:	•					
Laura a rabbarda						
- Subsurface also here						
<u> </u>						

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SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-55-20
PCS No.: 6090	DATE: 1/12 /2000
WEATHER: Partly Sunny, Coul,	400, bill zy
SATA PERSONNEL: (b) (4)	
Surface Soil □ Subsurface Soil □ Wa	ste
Sample Method: Disposable plastic trowel and disposable aluminum pan.	Color: Dark brown
Depth Sampled: 0 to 6 inches below ground	Description:
surface.	
Sample Date and Time: 1/12/2000	Silt
(i) 1325	Small rounded pebbles
Sampled by: (b) (4)	126667
	·
Signature(s):	
faulm, Das	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 13.668580738"
☐ High Concentration	
Grab	West: 75° 31′ 32.8193269 47′′
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	·
☐ TAL Metals 4° C	
'□ Cyanide 4° C ■ DNREC XRF Instrument 4° C	·
☐ Lead only 4° C	
()	•
Duplicate Sample Taken 000-67	•
Observations and Notes:	
·	
·	

OPIGINAL

SOIL SAMPLE LOG SHEET SATA REGION III SAMPLE No.: <u>TS-55-21</u> SITE NAME: 12th Street Land Fill Site PCS No.: 6090 DATE: <u>1/ /2 /2000</u> Partly Sonny, cool, 400, breeze WEATHER: SATA PERSONNEL: (b) (4) Surface Soil Subsurface Soil Waste Other Sample Method: Disposable plastic trowel Color: Dark and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. Silt (organic/roots) Sample Date and Time: 1/12/2000 Sampled by: P(b) (4) Signature(s): faul he Sample Type **GPS Coordinates:** Low Concentration North: 39° 44' 14.579346971'' ☐ High Concentration West: 15° 31' 32,93435 7717" Grab ☐ 5-Point Composite **Analysis** Preservative Sample Location Map: ☐ TCL VOAs 4° C 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals ☐ Cyanide 4° C DNREC XRF Instrument 4° C 4°.C ☐ Lead only ☐ Duplicate Sample Taken **Observations and Notes:** -Subsurface wiso have. collected conform TACMetals

Samp	le :	No.			_	

SATA REGION III SOIL SAMPLE LOG SHEET SAMPLE No.: でとっこ/ SITE NAME: 12th Street Land Fill Site DATE: 1/ 12/2000 PCS No.: 6090 Partly Sunny, cook, 400, breezy WEATHER: SATA PERSONNEL: (6) (4) ■ Surface Soil □ Subsurface Soil □ Waste □ Other Sample Method: Disposable plastic trowel Color: and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. Silt (organic/roots) Sample Date and Time: 1/12/2000 @ 1330 Sampled by: Signature(s): **GPS** Coordinates: Sample Type North: 39° 44' 14.579346971" Low Concentration ☐ High Concentration West: 75° 31' 32.934357717" Grab ☐ 5-Point Composite Sample Location Map: **Analysis** Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4°C ☐ TCL Pesticides/PCBs 4°C ☐ TAL Metals 4° C 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument Lead only (THE metais) 4° C ☐ Duplicate Sample Taken **Observations and Notes:** CLP No. __ MCYJ73 Confirmation Sample.

- Sissu-face a iso hand

Sample No.	
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SOIL SAMPLE LOG SHEET SATA REGION III SAMPLE No.: 75-55-22 SITE NAME: 12th Street Land Fill Site DATE: 1/ 12/2000 PCS No.: 6090 Partly Sunny, Lool, 400, breezy WEATHER: SATA PERSONNEL: (b) (4) Surface Soil 🛘 Subsurface Soil 🗘 Waste 🗘 Other_ Sample Method: Disposable plastic trowel Color: Dark brown and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. Silt lorganies (roots) Sample Date and Time: 1/12/2000 Sampled by: Signature(s): **GPS Coordinates:** Sample Type North: 390 44' 15,393300037" Low Concentration ☐ High Concentration West: 75° 31' 33.487450188" Grab ☐ 5-Point Composite Sample Location Map: Analysis Preservative 4° C ☐ TCL VOAs 4°C ☐ TCL SVOAs ☐ TCL Pesticides/PCBs 4° C 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C **DNREC XRF Instrument** 4° C ☐ Lead only ☐ Duplicate Sample Taken **Observations and Notes:** Subsurface also here.

Sample No.	
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SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 13-33-23
PCS No.: 6090	DATE: 1/ /2 /2000
WEATHER: Partly Sunny, Los	1, 40°, 6 rue 21
SATA PERSONNEL: (b) (4)	
Surface Soil Subsurface Soil W	aste Other
Sample Method: Disposable plastic trowel and disposable aluminum pan.	Color: Dark Grown
Depth Sampled: 0 to 6 inches below ground	
surface.	
Sample Date and Time: 1/12/2000 @ 1345	Sint · lorganic (roots) Smull subanysiar publics
Sampled by: (b) (4)	smull subanyster pebbles
Signature(s): Paulm. D.c	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 15.503370317"
☐ High Concentration	
Grab	West: 75° 31′ 33, 10426818"
☐ 5-Point Composite	
Analysis Preservative	-
Analysis Preservative ☐ TCL VOAs 4° C	
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C	
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C	
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C□ TAL Metals4° C	
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C□ TAL Metals4° C□ Cyanide4° C	
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C	
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C□ TAL Metals4° C□ Cyanide4° C	
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C	
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C	
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C	
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C	
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C	
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C	
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C	
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C	
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C	

ORIGIAIA,

SATA REGION III SOIL SAMPLE LOG SHEET SITE NAME: 12th Street Land Fill Site SAMPLE No.: 75-55-24 DATE: 1/12 /2000 PCS No.: 6090 WEATHER: Partly Sund, Cool, 400 6 neezy SATA PERSONNEL: (b) Surface Soil Subsurface Soil Waste Other Sample Method: Disposable plastic trowel Color: Dark brown and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. Silt of organics (roots) Sample Date and Time: 1/12/2000 @ 1350 Sampled by: (b) (4) Signature(s): **GPS** Coordinates: Sample Type North: 39° 44' 14.65453 6436" Low Concentration ☐ High Concentration West: 75° 31' 32.630524262" Grab ☐ 5-Point Composite Sample Location Map: **Analysis** Preservative 4° C ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals ☐ Cyanide 4° C 4° C DNREC XRF Instrument 4° C ☐ Lead only ☐ Duplicate Sample Taken **Observations and Notes:** Collected Contin menetels tack

Sample	No.	

OPIGNAL

SATA REGION III

SAMPLE No.: 73-35-24 SITE NAME: 12th Street Land Fill Site DATE: 1/12/2000 PCS No.: 6090 WEATHER: Partly Suny, cool, 400 breezy SATA PERSONNEL: (b) Surface Soil Subsurface Soil Waste Other Color: Sample Method: Disposable plastic trowel Dark brown and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. Silt w/ organics (roots) Sample Date and Time: 1/12/2000 @ 1350 Sampled by: Signature(s): **GPS** Coordinates: Sample Type North: 39° 44' 14.654536436" Low Concentration ☐ High Concentration West: 75° 31' 32, 630524262" Grab ☐ 5-Point Composite Sample Location Map: Analysis Preservative ☐ TCL VOAs 4° C 4° C ☐ TCL SVOAs ☐ TCL Pesticides/PCBs ⁴° C ☐ TAL Metals 4°C 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument Lead only (THE metals) 4° C ☐ Duplicate Sample Taken **Observations and Notes:** CLP No. MCYJ74 Confirmation Sample. Collected Contirm TALmetals here

Sample No.

SOIL SAMPLE LOG SHEET

OPIGINAL

SOIL SAMPLE LOG SHEET	SATA REGION III
SITE NAME: 12th Street Land Fill Site PCS No.: 6090 WEATHER: Partly Sung Cool, SATA PERSONNEL: (b) (4)	SAMPLE No.: 75-55-2.5 DATE: 1/12/2000 40; breezy
Surface Soil Subsurface Soil Wa	ste 🗆 Other
Sample Method: Disposable plastic trowel and disposable aluminum pan.	Color: Dark brown -
Depth Sampled: 0 to 6 inches below ground	Description:
surface.	•
Sample Date and Time: 1/12/2000	Silt lorganics)
@ 1400	
Sampled by: (b) (4)	
Sign of week)	
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 13,709 159898"
☐ High Concentration	3, 101,159,848
Grab	West: 75° 31' 32, 452653979"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	
	,

SOIL SAMPLE LOG SHEET	SATA REGION III
CAMPANAN TOUR OF THE TRUIT OF	CAMPLENT
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-55-26 DATE: 1/12/2000
PCS No.: 6090 WEATHER: Partly Sunny, Co	POI, 40°; breezy
SATA PERSONNEL: (b) (4)	er, 10 , gracing
SHITT ERBOTATES.	
Surface Soil Subsurface Soil Subsubsurface Soil Subsubsubsubsubsubsubsubsubsubsubsubsubsu	Waste Other
Sample Method: Disposable plastic trowe	Color:
and disposable aluminum pan.	Durk brown -
Depth Sampled: 0 to 6 inches below groun	· •
surface.	_ sit (organic) roots
Sample Date and Time: 1/12/2000	
(a) 1405	Smull Subangilar pubbles
Sampled by: (b) (4)	
C'(1)	
Signature(s):	
	CDS Coordinators
Sample Type Low Concentration	GPS Coordinates:
	North: 39° 44' 12.381368714"
☐ High Concentration ☐ Grab	West: 75° 31' 31.444487585"
5-Point Composite	West. 75 31 31 1144 6 75 65
Analysis Preservativ	e Sample Location Map:
☐ TCL VOAs 4° (
☐ TCL SVOAs 4° (
☐ TCL Pesticides/PCBs 4° (
☐ TAL Metals 4° (
☐ Cyanide 4° (<u> </u>
DNREC XRF Instrument 4° (
☐ Lead only 4°	
☐ Duplicate Sample Taken	
Observations and Notes:	
	·
(on grassy know)	

OAIGNIA

SATA REGION III SOIL SAMPLE LOG SHEET SITE NAME: 12th Street Land Fill Site SAMPLE No.: 75-35-27 DATE: 1/ /2 /2000 PCS No.: 6090 Partly Sunny, cool, 400, breezy WEATHER: SATA PERSONNEL: (b) (4) Surface Soil Subsurface Soil Waste Other Sample Method: Disposable plastic trowel Color: Dark brown and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. Silt lorganic fronts) Sample Date and Time: 1/12/2000 @ 1410 Sampled by: Signature(s): faul m. a Sample Type **GPS Coordinates:** North: 39° 44' 14,31133 2019" Low Concentration ☐ High Concentration West: 75° 31' 31.649362326" Grab ☐ 5-Point Composite Sample Location Map: Analysis **Preservative** ☐ TCL VOAs 4° C 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide DNREC XRF Instrument 4° C 4° C ☐ Lead only ☐ Duplicate Sample Taken **Observations and Notes:**

DINIADA

SOIL SAMPLE LOG SHI	EET	SATA REGION III
SITE NAME: 12th Street Land PCS No.: 6090 WEATHER: Parting Sura SATA PERSONNEL: (b) (4)		SAMPLE No.: 73-55-28 DATE: 1/12/2000
Surface Soil Subsurface	e Soil 🛭 Wa	ste
Sample Method: Disposable p	lastic trowel	Color:
and disposable aluminum pan.	1 1 1	Da-16 brown
Depth Sampled: 0 to 6 inches	below ground	Description:
surface. Sample Date and Time: 1/12/	2000	Silt lorganics/roots/humus)
Sample Date and Time. 1/12/		31/1 10 rgante) 11 80 1 1 10 x 25)
Sampled by: (b) (4)		
Signature(s):		
faith		
Sample Type		GPS Coordinates:
Low Concentration		North: 39° 44' 16, 33301093"
☐ High Concentration		
Grab		West: 75° 31′ 32.738141502″
5-Point Composite		
	Preservative	Sample Location Map:
TCL VOAs	4° C	,
☐ TCL SVOAs	4° C 4° C	·
☐ TCL Pesticides/PCBs	4° C	
☐ TAL Metals	4° C	
☐ Cyanide ☐ DNREC XRF Instrument	4° C	
☐ Lead only	4° C	
E Eedd only		
☐ Duplicate Sample Taken		· .
Observations and Notes:		
- Subsurface also band.		
		· ·
- collected Confirm TAC	ine folls	

SATA REGION III SOIL SAMPLE LOG SHEET SAMPLE No.: 73-55-28 SITE NAME: 12th Street Land Fill Site DATE: 1/12/2000 PCS No.: 6090 Partly Sing, cool, 420, breezy WEATHER: SATA PERSONNEL: Surface Soil Subsurface Soil Waste Other Sample Method: Disposable plastic trowel Color: Dark brown and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. Silt lorganics / roots/hours Sample Date and Time: 1/12/2000 @1420 Sampled by: (b) (4) Signature(s): Pani Des **GPS Coordinates:** Sample Type North: 390 44' 16.33301093" Low Concentration ☐ High Concentration West: 75° 31' 32.738141502" Grab ☐ 5-Point Composite Sample Location Map: **Preservative** Analysis 4° C ☐ TCL VOAs 4° C TCL SVOAS P.M.D 4° C ☐ TCL Pesticides/PCBs 4° C TAL Metals Pup 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument Lead only (TAL metals) 4° C ☐ Duplicate Sample Taken **Observations and Notes:** CLP Nos. Confirmation Sample. . Subsurface also have Background Sarapte.

ON GREAT

SOIL SAMPLE LOG SHEET SATA REGION III SAMPLE No.: *TS-55-29* SITE NAME: 12th Street Land Fill Site DATE: 1//Z /2000 PCS No.: 6090 WEATHER: Partly Sunny, (001, 400, 61 elzy SATA PERSONNEL: (b) (4) Surface Soil Subsurface Soil Waste Other Sample Method: Disposable plastic trowel Color: Light grad and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. 511+ Sample Date and Time: 1/12/2000 W 1435 Sampled by: (b) (4) Signature(s): Paril m. bi **GPS Coordinates:** Sample Type North: 390 44' 10.958229651" Low Concentration ☐ High Concentration West: 75° 31' 33. 203123445" Grab ☐ 5-Point Composite Sample Location Map: Preservative Analysis 4° C ☐ TCL VOAs ☐ TCL SVOAs 4° C 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C DNREC XRF Instrument 4° C ☐ Lead only ☐ Duplicate Sample Taken **Observations and Notes:** Collected along bank/full

Sam	ole	No.			

OPIGNAL

SOIL SAMPLE LOG SHEET **SATA REGION III** SAMPLE No.: 75-55-30 SITE NAME: 12th Street Land Fill Site PCS No.: 6090 DATE: 1/ /3 /2000 WEATHER: Cloudy, light rain, 450 SATA PERSONNEL: (b) Surface Soil Subsurface Soil Waste Other Sample Method: Disposable plastic trowel Color: cription: 5ilt (Some organics) and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: surface. Sample Date and Time: 1/13/2000 @ 0755 Sampled by: Signature(s): **GPS** Coordinates: Sample Type North: 39° 44' 09.868051313" Low Concentration ☐ High Concentration West: 75° 31' 33.0/372 7622" Grab ☐ 5-Point Composite Analysis **Preservative** Sample Location Map: ☐ TCL VOAs 4° C 4° C ☐ TCL SVOAs ☐ TCL Pesticides/PCBs 4°C 4° C ☐ TAL Metals ☐ Cyanide 4° C 4° C DNREC XRF Instrument 4° C ☐ Lead only ☐ Duplicate Sample Taken **Observations and Notes:** - Bank/All Sumple

ONIGINAL

SATA REGION III SOIL SAMPLE LOG SHEET SAMPLE No.: 75-55-3/ SITE NAME: 12th Street Land Fill Site DATE: 1/ 13/2000 PCS No.: 6090 WEATHER: cloudy, Irght rain, 450 SATA PERSONNEL: (b) (4) Surface Soil 🛘 Subsurface Soil 🖨 Waste 🗘 Other_____ Color: Sample Method: Disposable plastic trowel and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground Description: Sit lorganics/rosts) surface. Sample Date and Time: 1/13/2000 6 0800 Sampled by: Signature(s): **GPS** Coordinates: Sample Type North: 39° 44' 08 927234378'' Low Concentration ☐ High Concentration West: 75° 31′ 33.294160612 " Grab ☐ 5-Point Composite Sample Location Map: Preservative Analysis 4° C ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C DNREC XRF Instrument 4° C ☐ Lead only ☐ Duplicate Sample Taken **Observations and Notes:** - bank/fil sample

SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land	Fill Site	SAMF	LE No.: <u>T5-55-32</u>
PCS No.: 6090	_		DATE: <u>1//3 /2000</u>
WEATHER: Cloudy, 6	ight rain	450	<u></u>
SATA PERSONNEL: (b) (4)			
Surface Soil □ Subsurfac	e Soil 🛭 Wa	ste Other_	
Sample Method: Disposable p	lastic trowel	Color:	-
and disposable aluminum pan.		6-ray	<u></u>
Depth Sampled: 0 to 6 inches surface.	below ground	Description:	
Sample Date and Time: 1/13/2	2000 -	5,1+	
	105	3171	
Sampled by: (b) (4)		(ush4?)	
Signature(s):			
faul m. De			
Sample Type	<u></u>	GPS	Coordinates:
Low Concentration		North: 390 49	1' 06.870428891"
☐ High Concentration			22 5- 220 25 4
Grab	·	West: 15° 31	33.520739201"
☐ 5-Point Composite	<u> </u>	C. I. T. and the	D.C.
	Preservative 4° C	Sample Location	Map:
TCL VOAs	4° C	•	•
☐ TCL SVOAs ☐ TCL Pesticides/PCBs	4° C		
☐ TAL Metals	4° C		
☐ Cyanide	4° C	. •	•
DNREC XRF Instrument	4° C		
☐ Lead only	4° C		
☐ Duplicate Sample Taken			
Observations and Notes:		·	
- bank fill sample			
Jample 30mple			
	,·		
	,·		

SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site		SAMPLE No.: <u>73-33-33</u>
PCS No.: 6090	.	DATE: <u>1/ / 3/2000</u>
WEATHER: Cloudy, 1196+	1 air	, 43
SATA PERSONNEL: (b) (4)		
Surface Soil □ Subsurface Soil □	l Was	ite 🗆 Other
Sample Method: Disposable plastic trow and disposable aluminum pan.	vel	Color: Gray to light-brown
Depth Sampled: 0 to 6 inches below gro surface.	und	Description:
Sample Date and Time: 1/13/2000		Silty (Makey)
P 0810		•
Sampled by: (b) (4)		(asny?)
Signature(s):		
Sample Type		GPS Coordinates:
Low Concentration		North: 39° 44' 05.03.155.2055"
☐ High Concentration		•
Grab .		West: 75° 31′ 34.363904944′′
☐ Grab ☐ 5-Point Composite	4:	West: 75° 31' 34.363904944''
Grab □ 5-Point Composite Analysis Preservat		•
Grab □ 5-Point Composite Analysis Preservat □ TCL VOAs 4	° C	West: 75° 31' 34.363904944''
Grab □ 5-Point Composite Analysis Preservat □ TCL VOAs 4 □ TCL SVOAs 4	l° C	West: 75° 31' 34.363904944''
Grab 5-Point Composite Analysis TCL VOAs TCL SVOAs TCL Pesticides/PCBs 4	° C	West: 75° 31' 34.363904944''
Grab 5-Point Composite Analysis TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals 4	l° C l° C	West: 75° 31' 34.363904944''
Grab 5-Point Composite Analysis TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide Grab Preservat 4 Cyanide	° C ° C ° C	West: 75° 31' 34.363904944''
Grab 5-Point Composite Analysis TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide DNREC XRF Instrument 4	° C ° C ° C ° C	West: 75° 31' 34.363904944''
Grab 5-Point Composite Analysis TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide DNREC XRF Instrument 4	° C ° C ° C ° C	West: 75° 31' 34.363904944''
Grab 5-Point Composite Analysis TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide DNREC XRF Instrument Lead only 4	° C ° C ° C ° C	West: 75° 31' 34.363904944''
Grab	° C ° C ° C ° C	West: 75° 31' 34.363904944''
Grab 5-Point Composite Analysis TCL VOAs TCL SVOAs TCL Pesticides/PCBs TAL Metals Cyanide DNREC XRF Instrument Lead only 4	° C ° C ° C ° C	West: 75° 31' 34.363904944''
Grab	° C ° C ° C ° C	West: 75° 31' 34.363904944''
Grab	° C ° C ° C ° C	West: 75° 31' 34.363904944''
Grab	° C ° C ° C ° C	West: 75° 31' 34.363904944''
Grab	° C ° C ° C ° C	West: 75° 31' 34.363904944''
Grab 5-Point Composite Analysis TCL VOAS TCL SVOAS TCL Pesticides/PCBs TAL Metals Cyanide DNREC XRF Instrument Lead only Duplicate Sample Taken	° C ° C ° C ° C	West: 75° 31' 34.363904944''

Sample No:

SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <u>73 - 33 - 34</u>			
PCS No.: 6090 DATE: 2/ j 4 /2000				
WEATHER: Cloudy, light inkinithent rain 450-550				
SATA PERSONNEL: (b) (4)				
■ Surface Soil □ Subsurface Soil □ Wa	ste Other			
Sample Method: Hand shovel, disposable	Color:			
plastic trowel, and disposable aluminum	Mark In			
pan.	Dark brown			
Depth Sampled: 0 to 12 inches below	Description:			
ground surface.				
Sample Date and Time:	Silt (some organics)			
2/14/2000 at ///0 (b) (4)	,			
Sampled by: (b) (4)				
Signature(s)				
Paul m. W.	CDS Coordinates			
Sample Type	GPS Coordinates:			
Low Concentration	North: 39° 44' 14.670957 185"			
High Concentration	West: 75° 31′ 33.5036 3339′′			
☐ Grab☐ 5-Point Composite	west. 13 31 33.3030 3337			
Analysis Preservative	Observations and Notes:			
☐ TCL VOAs 4° C				
TCL SVOAs 4° C	Same location as 75-55-14			
TCL Pesticides/PCBs 4° C				
TAL Metals 4° C	,			
☐ DNREC XRF Instrument 4° C				
☐ Lead only 4° C				
Bio-assay (14-day acute test on				
earthworms) N/A				
☐ Duplicate Sample Taken				
Sample Location Map:				
See Sample Location Map in Trip Report.				
•				
	,			

OFIGING

SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-55-35			
PCS No.: 6090 DATE: 2/14 /2000				
WEATHER: Cloudy, light inkrmithent rain, 450-530				
SATA PERSONNEL: (b) (4)	(4)			
Surface Soil Subsurface Soil Wa	ste 🗆 Other			
Sample Method: Hand shovel, disposable	Color:			
plastic trowel, and disposable aluminum	Dark brown			
pan.				
Depth Sampled: 0 to 12 inches below	Description:			
ground surface.	Sult with acrosus and			
Sample Date and Time:	Silt with organics and			
2/14/2000 at //20 jason letrous Sampled by: (b) (4)	angular pebbles.			
Signature(s)				
Paul miso-				
Sample Type	GPS Coordinates:			
Low Concentration	North: 34° 44' 14.700 286 828''			
☐ High Concentration				
Grab	West: 75° 31' 33,75 3570 759'			
☐ 5-Point Composite				
Analysis Preservative	Observations and Notes:			
☐ TCL VOAs 4° C	Same location as TS-55-09			
TCL SVOAs 4° C				
TCL Pesticides/PCBs 4° C	· · · · · · · · · · · · · · · · · · ·			
TAL Metals 4° C				
	1			
□ DNREC XRF Instrument 4° C				
☐ Lead only 4° C				
☐ Lead only 4° C ☐ Bio-assay (14-day acute test on				
☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A				
☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken				
☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A				
☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken				
☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken Sample Location Map:				
☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken Sample Location Map:				
☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken Sample Location Map:				
☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken Sample Location Map:				

ORIGINAL .

SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 73 -55-36			
PCS No.: 6090	DATE: <u>2/ /4 /2000</u>			
WEATHER: Cloudy, light intermittent rain, 450-550				
SATA PERSONNEL: (b) (4) (b) (4)				
Surface Soil Subsurface Soil Waste Other				
Sample Method: Hand shovel disposable	Color:			
Sample Method: Hand shovel, disposable plastic trowel, and disposable aluminum	· ~			
	While (multicolors)			
Depth Sampled: 0 to 12 inches below	Description:			
ground surface.				
Sample Date and Time:	Ashy substance.			
2/ 14 /2000 at //30 (b) (4)	wire, hose, and other			
Sampled by: (b) (4)				
Signature(s):	Scrup puces.			
Paul Din=				
Sample Type	GPS Coordinates:			
Low Concentration	North: 39° 44' 11.999769 786"			
High Concentration				
Grab	West: 75° 31′ 33.52 44 53173′′			
☐ 5-Point Composite				
Analysis Preservative	Observations and Notes:			
☐ TCL VOAs 4° C	Same location as TS-55-12			
TCL SVOAs 4° C	Jame 10canos as 15-20 10			
TCL Pesticides/PCBs 4° C				
TAL Metals 4° C				
☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C				
Deta only				
Bio-assay (14-day acute test on earthworms) N/A	·			
☐ Duplicate Sample Taken				
Sample Location Map:				
Sumple Escution Wap				
See Sample Location Map in Trip Report.				
·				

OFICAL

SOIL SAMPLE LOG SHEET

SATA REGION III

PCS No.: 6090 WEATHER: cloudy light inkemitte	DATE: 2/14 /2000
SATA PERSONNEL: (b) (4)	(4)
Surface Soil Subsurface Soil Wa	ste Other
Sample Method: Hand shovel, disposable	Color:
plastic trowel, and disposable aluminum	Dark brown
pan. Depth Sampled: 0 to 12 inches below	Description:
ground surface.	
Sample Date and Time:	Silt with organics
2/14/2000 at 1200	fronts/homes)
Sampled by: (b) (4)	
Signature(s):	
face Das	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44′ 16.33301093′
High Concentration	West: 75° 31' 32,738141502"
Grab	West. 73 37 3X1138191302
III 5-Point Composite	
5-Point Composite Analysis Preservative	Observations and Notes:
Analysis Preservative	Observations and Notes:
Analysis Preservative	Observations and Notes: Some location as 75-55-28
AnalysisPreservative□ TCL VOAs4° C	1
AnalysisPreservative□ TCL VOAs4° CTCL SVOAs4° C	1
AnalysisPreservative□ TCL VOAs4° CTCL SVOAs4° CTCL Pesticides/PCBs4° CTAL Metals4° C□ DNREC XRF Instrument4° C	1
Analysis Preservative □ TCL VOAs 4° C I TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C □ DNREC XRF Instrument 4° C □ Lead only 4° C	1
AnalysisPreservative□ TCL VOAs4° CTCL SVOAs4° CTCL Pesticides/PCBs4° CTAL Metals4° C□ DNREC XRF Instrument4° C□ Lead only4° CBio-assay (14-day acute test on	1
AnalysisPreservative□ TCL VOAs4° CTCL SVOAs4° CTCL Pesticides/PCBs4° CTAL Metals4° C□ DNREC XRF Instrument4° C□ Lead only4° C■ Bio-assay (14-day acute test on earthworms)N/A	1
AnalysisPreservative□ TCL VOAs4° CTCL SVOAs4° CTCL Pesticides/PCBs4° CTAL Metals4° C□ DNREC XRF Instrument4° C□ Lead only4° C■ Bio-assay (14-day acute test on earthworms)N/A□ Duplicate Sample Taken	1
AnalysisPreservative□ TCL VOAs4° CTCL SVOAs4° CTCL Pesticides/PCBs4° CTAL Metals4° C□ DNREC XRF Instrument4° C□ Lead only4° C■ Bio-assay (14-day acute test on earthworms)N/A	1
AnalysisPreservative□ TCL VOAs4° CTCL SVOAs4° CTCL Pesticides/PCBs4° CTAL Metals4° C□ DNREC XRF Instrument4° C□ Lead only4° C■ Bio-assay (14-day acute test on earthworms)N/A□ Duplicate Sample Taken	1
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken Sample Location Map:	1
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken Sample Location Map:	1
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken Sample Location Map:	1
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken Sample Location Map:	1

SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site SAMPLE No.: 75-58-04				
PCS No.: 6090 DATE: 1/13/2000				
WEATHER: <u>cloudy</u> , (001, 1194+ rain, 450				
SATA PERSONNEL: (b) (4)				
☐ Surface Soil Subsurface Soil ☐ Wa	ste 🗆 Other			
Sample Method: Hand auger, disposable	Color:			
plastic trowel, and disposable aluminum	Dark brown to black			
pan.	Dark Grown to Black			
Depth Sampled: 3-3,5 feet below ground	Description:			
surface.	Silty (Some clay nodes)			
Sample Date and Time: 1/13/2000				
Sampled by: (b) (4)	traces of ash toutel pes			
	Small Subanquiar publics			
Signature(s):	and sus rounded persus			
Sample Type	GPS Coordinates:			
Low Concentration	North: 39° 44' 12.720240405"			
☐ High Concentration				
Grab	West: 75° 31′ 33,04677756 "			
☐ 5-Point Composite				
Analysis Preservative	Sample Location Map:			
☐ TCL VOAs 4° C	·			
☐ TCL SVOAs 4° C				
☐ TCL Pesticides/PCBs 4° C				
☐ TAL Metals 4° C	, ,			
Cyanide 4° C	·			
DNREC XRF Instrument 4° C				
☐ Lead only 4° C				
· · · · · · · · · · · · · · · · · · ·				
☐ Duplicate Sample Taken				
Observations and Notes:	<u>,</u>			
· collected confirm TAL/Soun have	·			
Same location as 79-55-16				

SATA REGION III SOIL SAMPLE LOG SHEET SAMPLE No.: 73-5B-04 SITE NAME: 12th Street Land Fill Site DATE: 1/13/2000 PCS No.: 6090 Cloudy, rain, cool, 450 WEATHER: SATA PERSONNEL: ☐ Surface Soil ☑ Subsurface Soil ☐ Waste ☐ Other_ Color: Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum Dark brown to black Description: Depth Sampled: 3-3,5 feet below ground surface. Silty (Soul clay rodes) Sample Date and Time: 1/13/2000 (a) 0850 traces of ash + metal pes Sampled by: Small Subanquiar nebbles and Subrounded \$156105 Signature(s): David on the **GPS Coordinates:** Sample Type North: 390 44' 12,720240405" Low Concentration ☐ High Concentration West: 75° 31' 33.04677756" Grab ☐ 5-Point Composite Sample Location Map: **Preservative Analysis** 4° C ☐ TCL VOAs 4° C TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C TAL Métals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only ☐ Duplicate Sample Taken **Observations and Notes:** CLP Nos. MC4J77/ (x679

Confirmation Sample.

Same location as 79-55-16

Sampl	e No	•	
بمستهد	C INU.		

SOIL SAMPLE LOG SHEET SATA REGION III SITE NAME: 12th Street Land Fill Site SAMPLE No.: TS. 3B-05 DATE: 1//3 /2000 PCS No.: 6090 Cloudy, Hoht rain 450 WEATHER: SATA PERSONNEL: ☐ Surface Soil ☑ Subsurface Soil ☐ Waste ☐ Other Sample Method: Hand auger, disposable Color: plastic trowel, and disposable aluminum Dark brown pan. Depth Sampled 2.5-3.0 feet below ground Description: surface. Silt ~/ Silty clay nodes Sample Date and Time: 1/13/2000 Somull angular isus anquiar (4 0915 Sampled by: Signature(s): finism. H **GPS** Coordinates: Sample Type North: 39° 44' 13.707885779' Low Concentration ☐ High Concentration West: 75° 31' 33 255082156" Grab ☐ 5-Point Composite Sample Location Map: **Analysis** Preservative 4° C ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C DNREC XRF Instrument ☐ Lead only 4° C ☐ Duplicate Sample Taken **Observations and Notes:** -collected confirm Markelsfull -Sand location 45 TS-35-15

SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: /3-38-09
PCS No.: 6090	DATE: <u>1//3/2000</u>
WEATHER: Cloudy, Cool, light	rain, 45
SATA PERSONNEL: (b) (4)	
☐ Surface Soil ☑ Subsurface Soil ☐ Wa	ste Other
Sample Method: Hand auger, disposable	Color:
plastic trowel, and disposable aluminum	A. I. berre
pan	Dark brown
Depth Sampled: 3.5-3.0 feet below ground	Description:
surface.	Sit with Sith clay nodes
Sample Date and Time: 1/13/2000	3/17 101.101 31119 529 1151 1
(d) 0915	Small angulor/Subangulur
Sampled by: (b) (4)	pertes
Signatura(s)	
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 13.707885779"
☐ High Concentration	
Grab	West: 75° 31' 33.255082156"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	,
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals' 4° C	·
☐ Cyanide 4° C	
□ DNREC XRF Instrument 4° C	·
Lead only 4° C	1
	•
☐ Duplicate Sample Taken	
Observations and Notes:	
CIPNO MINTE	
CLP No. <u>ncy T75</u>	,
Confirmation Sample.	
Sant location as 15-55-15	
1 24/me 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1

OFIGINAL -

SOIL SAMPLE LOG SHEET

SATA REGION III

PCS No.: 6090 WEATHER: Cloudy light Cain, SATA PERSONNEL: (b) (4)	DATE: 1// 3 /2000
☐ Surface Soil ☑ Subsurface Soil ☐ Wa	ste Other
Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.	Color: Bark brawn
Depth Sampled: 3,0-3,5 feet below ground surface. (>2 trial) Sample Date and Time: 1/13 /2000	Description:
Sampled by: (b) (4)	Some intulic pieces
Signature(s): Paul in Gus Sample Type	GPS Coordinates:
Low Concentration High Concentration	North: 39° 44' 14.670957185"
Grab □ 5-Point Composite Analysis Preservative	West: 75° 31′ 33.5036 3339 ′′ Sample Location Map:
□ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C	
□ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C	,
☐ Lead only 4° C	· · · · · · · · · · · · · · · · · · ·
☐ Duplicate Sample Taken Observations and Notes:	
- Sant location as TB-SS-14	

SOIL SAMPLE LOG SHEET

SATA REGION III

PCS No.: 6090	DATE: 1/13/2000
WEATHER: Cloudy, light (un)	2001, 43
☐ Surface Soil	ste
Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum	Color:
pan. Depth Sampled: 2,5-3.0 feet below ground	Description:
surface. ('e kisa')	<u>-</u>
Sample Date and Time: 1/13/2000	Some metallic preces.
@ 0950	Some metallic proces
Sampled by: (b) (4)	pace 2
Signature(s):	
	GPS Coordinates:
Sample Type Low Concentration	North: 39° 44' 15.603423391'
☐ High Concentration	•
Grab	West: 75° 31′ 33.804730394"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
-	
☐ Duplicate Sample Taken	
Observations and Notes:	
Observations and Notes.	
- Sand location as 73-55-13	
, '	

SOIL SAMPLE LOG SHEET

SATA REGION III

PCS No.: 6090	DATE: 1/13/2000
WEATHER: cloudy, light rain,	Caci, 450
SATA PERSONNEL:(b) (4)	
☐ Surface Soil Subsurface Soil ☐ Wa	ste 🗆 Other
Sample Method: Hand auger, disposable	Color:
plastic trowel, and disposable aluminum	Dark brown
pan.	
Depth Sampled 2.5-3.0 feet below ground	Description:
Sample Date and Time: 1/13/2000	Silty
Sample Date and Time. 17772000	
Sampled by: (b) (4)	Some shell fragments metallic pieces.
	mutallic airie
Signature(s):	memore pieces.
Paul os bous	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 12.700467646"
High Concentration	West: 75° 31′ 32.536878685′′
Grab 5-Point Composite	West. 73 37 33, 3760, 8603
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	Sumple Econol 1120p
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
	,
II D. I. Garagla Talaan	
Duplicate Sample Taken	·
Observations and Notes:	
Sand last to a series -	
- Same location as 75-55-19	
Colleted confirm TAL/SUDA HA	K '
•	
•	
	Sample No

SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <u>75-58-08</u>
PCS No : 6000	DATE: <u>1/ /3/2000</u>
WEATHER: Cloudy, light rais	2. 1001,450
SATA PERSONNEL: (b) (4)	
□ Surface Soil ☑ Subsurface Soil □ Wa	ste 🗆 Other
Sample Method: Hand auger, disposable	Color:
plastic trowel, and disposable aluminum	Dark Brown
pan.	<u> </u>
Depth Sampled: 2,5-3,0 feet below ground	Description:
surface.	Silter
Sample Date and Time: 1/13/2000	
@ 1015	Some Shell fragments
Sampled by: (b) (4)	me tailie pilces.
0: ()	, , , , ,
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 12.700467646"
High Concentration	1 101th 39 49 12.100961696
Grab	West: 75° 31' 32.536878685"
5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	1
TCL SVOAs 4° C	1
☐ TCL Pesticides/PCBs 4° C	
TAL Metals 4° C	,
☐ Cyanide 4° C	
☐ DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	
CLP Nos. MLY 578 CXG 80	·
CLI 1903. 1101 0 101 0 00	
Confirmation Sample.	
-Same location as 75-55-19	
_	<u></u>

ORIGINAL SATA REGION III SOIL SAMPLE LOG SHEET SAMPLE No.: 75-5B-09 SITE NAME: 12th Street Land Fill Site DATE: 1// 3 /2000 PCS No.: 6090 WEATHER: (100 /4, Cod), 1196+ rain SATA PERSONNEL: (b) ☐ Surface Soil ☑ Subsurface Soil ☐ Waste ☐ Other Color: Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum DRILL Brown Description: Depth Sampled: 30-3.5 feet below ground Clayey Silt (Fill) Sample Date and Time: 1/13/2000 quentuniklorange Hales 1005 Sampled by: Signature(s): fourt on Dr **GPS Coordinates:** Sample Type North: 39° 44' 13.668 580 738" Low Concentration ☐ High Concentration West: 75° 31' 32.819326947" Grab ☐ 5-Point Composite Sample Location Map: Preservative Analysis

4° C

4° C

4° C

4° C

4° C

4° C

☐ TCL VOAs

☐ TCL SVOAs

☐ TAL Metals

☐ Cyanide

☐ Lead only

☐ TCL Pesticides/PCBs

DNREC XRF Instrument

☐ Duplicate Sample Taken
Observations and Notes:

- Same location as TS-55-20

ample l	No.		

SOIL SAMPLE LOG SHEET

SATA REGION III

PCS No.: 6090 WEATHER: Cloudy, light rain SATA PERSONNEL: (b) (4)	DATE: 1//3/2000
☐ Surface Soil ☑ Subsurface Soil ☐ Wa	ste Other
Sample Method: Hand auger, disposable plastic trowel, and disposable aluminum pan.	Color: Oark brown
Depth Sampled: 3.0-3.5 feet below ground surface. Sample Date and Time: 1/13/2000	Description: S(1)+
Sampled by: (b) (4)	traces of ash and brick Small angular/subanquis public
Signature(s): Pand D Sample Type	GPS Coordinates:
Low Concentration ☐ High Concentration ☐ Grab	North: 39° 44' 14.579346971" West: 75° 31' 32.934357717"
☐ 5-Point Composite Analysis Preservative	Sample Location Map:
□ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C	
□ TAL Metals 4° C □ Cyanide 4° C ■ DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken Observations and Notes:	
Saml location us Ts-55-21	

Sample No.____

SOIL SAMPLE LOG SHEET	SATA REGION III	
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <u>13-56-11</u>	
PCS No.: 6090	DATE: <u>1/ /3/2000</u>	
WEATHER: [[loudy , light fair	1, (001, 45	
SATA PERSONNEL: (b) (4)		
☐ Surface Soil ☑ Subsurface Soil ☐ Wa	aste	
Sample Method: Hand auger, disposable	Color:	
plastic trowel, and disposable aluminum	Dark brown	
pan.	· · · · · · · · · · · · · · · · · · ·	
Depth Sampled: 3.0-3.5 feet below ground	Description:	
surface. Sample Date and Time: 1/13/2000	SILT	
(a) 1030	some colored pieces	
Sampled by: (b) (4)		
Simple (a)	(pople/white)	
Signature(s):	Some brick puces.	
Sample Type	GPS Coordinates:	
Low Concentration	North: 390 44' 15.39 3 300 0 37"	
High Concentration		
Grab	West: 75° 31' 33.487450188"	
☐ 5-Point Composite		
Analysis Preservative	Sample Location Map:	
☐ TCL VOAs 4° C	-	
☐ TCL SVOAs 4° C	-	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C	·	
	·	
DNREC XRF Instrument 4° C ☐ Lead only 4° C	· ·	
Lead only 4 C	1	
	1	
☐ Duplicate Sample Taken	1	
Observations and Notes:		
- Same location as TS-55-22	·	
•		

OPIGINAL

SITE NAME: 12th Street Land Fill Site SAMPLE No.: 73 32.72			
PCS No.: 6090 DATE: 1//3 /2000			
WEATHER: [loudy, lool, light rain, 450			
SATA PERSONNEL: (b) (4)			
☐ Surface Soil ☐ Waste ☐ Other			
Sample Method: Hand auger, disposable Color:			
plastic trowel, and disposable aluminum			
pan.			
Depth Sampled: 2,5-3,0 feet below ground Description:			
Sample Date and Time: 1/13/2000 Solly have grained bank			
C 1045			
Sampled by: (b) (4)			
Signature(s);			
Signature(s)			
Sample Type GPS Coordinates:			
Low Concentration North: 39° 44′ 16.33301093'			
☐ High Concentration ☐ Grab West: 75° 31′ 32.738141502′′			
☐ 5-Point Composite Analysis Preservative Sample Location Map:			
☐ TCL VOAs 4° C			
☐ TCL SVOAs 4° C			
☐ TCL Pesticides/PCBs 4° C			
☐ TAL Metals ' 4° C			
☐ Cyanide 4° C			
DNREC XRF Instrument 4° C			
☐ Lead only 4° C			
☐ Duplicate Sample Taken			
Observations and Notes:			
- Sand lacation as 13-55-28			
- collected contirm TAL metais			
here			

OPIGINA

SOIL SAMPLE LOG SHEET	SATA REGION III
CITE NAME, 12th Street Land Eill Site	SAMPLE No.: 73-5B-12
SITE NAME: 12th Street Land Fill Site PCS No.: 6090	DATE: 1/13/2000
WEATHER: Clouder, Cool, ligh-	+ rain 450
SATA PERSONNEL: (b) (4)	
☐ Surface Soil Subsurface Soil ☐ W	aste Other
Sample Method: Hand auger, disposable	Color:
plastic trowel, and disposable aluminum	Brown
pan.	
Depth Sampled: 2.5-3.0 feet below ground surface.	Description:
Sample Date and Time: 1/13/2000	Silty fine grained land
@ 1045	1 Journey Pana
Sampled by: (b) (4)	1
	·
Signature(s):	· ·
faul des	
Sample Type	GPS Coordinates:
Low Concentration	North: 34° 44' 16.33301093'
High Concentration	West: 75° 31' 32,7381415'62''
Grab	West: /3 - 3/ - 32 / / 3 - / /
☐ 5-Point Composite Analysis Preservative	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C	Sample Location Wap.
☐ TCL SVOAs 4° C	<u>-</u>
☐ TCL Pesticides/PCBs 4° C	4 · ·
☐ TAL Metals 4° C	,
☐ Cyanide 4° C	
□ DNREC XRF Instrument 4° C	
Lead only 4° C	
(ELP only)	
Duplicate Sample Taken 🛪 🕫	
Observations and Notes:	•
CLP No. MCY J 76	
Confirmation Sample.	
Saw location as TS-55-28	

OPIGINE

SOIL SAMPLE LOG SHEET	SATA REGION III		
SITE NAME: 12th Street Land Fill Site PCS No.: 6090 WEATHER: Cloudy, Cool, light SATA PERSONNEL: (b) (4)	SAMPLE No.: 73-86-02 DATE: 1/13/2000		
Surface Soil Subsurface Soil Waste Other			
Sample Method: Disposable plastic trowel and disposable aluminum pan. Depth Sampled: 0 to 6 inches below ground	Color: Brown Description:		
surface. Sample Date and Time: 1/13/2000	Silty fine graned Sand		
Sampled by: (b) (4)			
Signature(s): Paul Sample Type	GPS Coordinates:		
Low Concentration High Concentration	North:		
Grab □ 5-Point Composite Analysis Preservative	West: Sample Location Map:		
□ TCL VOAs 4° C ■ TCL SVOAs 4° C	Sample Location Wap.		
□ TCL Pesticides/PCBs 4° C ■ TAL Metals 4° C □ Cyanide 4° C			
DNREC XRF Instrument 4° C □ Lead only 4° C			
☐ Duplicate Sample Taken			
Observations and Notes:			
CLPH'S MCY J94/CX683			

OPIGINAL

SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12	th Street Land	Fill Site		SAMPLE No.: 7	3-36-01
PCS No.: 6090				DATE: <u>1/</u>	13/2000
WEATHER:	Cloudy,	light rain	, cool,	450	
SATA PERSON	NEL: (b) (4)				

	· · · · · · · · · · · · · · · · · · ·
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	, -
Sample Date and Time: 1//3/2000	MICACLOUS Silt clay loan
@ 1250	'
Sampled by: (b) (4)	
bumpied by.	
Signature(s):	·
Paulas.	
	GPS Coordinates:
Sample Type Low Concentration	· ·
	North: JA
☐ High Concentration ☐ Grab	West: N/A
.	West. NIA
5-Point Composite	Grands I section Mone
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	·
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
,	·
☐ Duplicate Sample Taken	·
Observations and Notes:	•
Collected from the eastern side mudflat of	
the Brandywine Creek.	
life Brailey wife Creek.	,
166	

SITE NAME: 12th Street Land Fill Site

☐ Cyanide

☐ 'Lead only

☐ DNREC XRF Instrument

☐ Duplicate Sample Taken **Observations and Notes:**

the Brandywine Creek.

CLP No. : MLY J93

Background Sample.

Collected from the eastern side mudflat of

(x682

SATA REGION III

SAMPLE No.: 75-86-01

DATE: 1/ /3/2000

PCS No.: 6090	DATE: <u>1/ / 3/2000</u>
WEATHER: Cloudy, light rain	(001, 450
SATA PERSONNEL: (b) (4)	
Sample Method: Disposable plastic trowe	el Color:
and disposable aluminum pan.	Brown
Depth Sampled: 0 to 6 inches below cree	k Description:
bed surface.	MICOCOMIS
Sample Date and Time: 1/13/2000	micaceous silt cly loan
@ 1250	
Sampled by P(b) (4)	
Paul ns. Dr	CDS Consideration
Sample Type	GPS Coordinates:
Low Concentration	North: N/4
High Concentration	West: NA
Grab	West: NW
☐ 5-Point Composite	
Analysis Preservati	•
	<u>°C</u>
1020.010	°C
	<u>°C </u>
TAL Metals 4°	C

4° C

4° C

<u></u>			
	•		
	Sample No.		

OPIGINER

SOIL SAMPLE LOG SH	EEI	SATA REGION III
SITE NAME: 12th Street Lar	d Fill Site	SAMPLE No.: 75-66-07
PCS No.: 6090		DATE: <u>1/ <i>13</i> /2000</u>
WEATHER: Cloudy C	cool, light	rain, 400
SATA PERSONNEL: (b) (4)		
Surface Soil Subsurface	ace Soil 🛭 Wa	ste 🗆 Other
Sample Method: Disposable	plastic trowel	Color:
and disposable aluminum pan		Brown
Depth Sampled: 0 to 6 inches	below ground	Description:
surface.		
Sample Date and Time: 1/13		Silty has grained said.
(h) (1)	<u>55</u>	
Sampled by: (b) (4)		
Signature(s):		
Paul m. 05		
Sample Type		GPS Coordinates:
Low Concentration		North:
☐ High Concentration		Troim.
Grab		West:
☐ 5-Point Composite		
Analysis	Preservative	Sample Location Map:
☐ TCL VOAs	4° C	
☐ TCL SVOAs	4° C	•
☐ TCL Pesticides/PCBs	4° C	
☐ TAL Metals	4° C	
☐ Cyanide	4° C	
DNREC XRF Instrument	4° C	
☐ Lead only	4° C	•
-		
☐ Duplicate Sample Taken		
Observations and Notes:	··	,
Observations and motes.		· .
	ļ	·
		

Sample No._

OPIGINAL

SEDIMENT SAMPLE LOG SHEET

PCS No.: 6187
WEATHER: Sunny, mild, 50°F, and breezy

SITE NAME: 12th Street Land Fill Site

SATA REGION III

SAMPLE No.: 75-Sed-01B

DATE: <u>2/22/2000</u>

SATA PERSONNEL: (0) (4)	
Sample Method: Hand auger and a	Color: Grayish - black
disposable plastic trowel.	Description:
Depth Sampled: 1/-12 inches below creek	· -
bed surface. Sample Date and Time: 2/22/2000 at 4525	Silty Clay.
Sample Date and Time: 2/22/2000 at 4000	· • •
Sampled by: (b) (4)	·
Signature(s):	
Signature(s): Paul Q	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 16.088"
☐ High Concentration	
Grab	West: 75° 31' 34.681"
☐ 5-Point Composite	C. I. V. Wana
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	· ·
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DIVICE AIG Instrument	
☐ Lead only 4° C	
<u> </u>	
Dunlicate Sample Taken	
☐ Duplicate Sample Taken Observations and Notes:	†
Observations and Notes.	
Collected from the eastern side mudflat of	
the Brandywine Creek.	İ
the Brane, with	

Sample No.

ORIGINAL

SOIL SAMPLE LOG SHEET SATA REGION III SAMPLE No.: 75 - 86-02 SITE NAME: 12th Street Land Fill Site PCS No.: 6090 DATE: 1/13 /2000 Cloudy, light rain, cool, 400 WEATHER: SATA PERSONNEL: (b) (4) ☐ Surface Soil Subsurface Soil ☐ Waste ☐ Other Sample Method: Hand auger, disposable Color: plastic trowel, and disposable aluminum light to med brown pan. Depth Sampled: 2-2.5 feet below ground Description: surface. fine grained Sand Sample Date and Time: 1/13/2000 (some organics) @ 1300 Sampled by: (b) (4) Signature(s): Paul m. Di **GPS** Coordinates: Sample Type Low Concentration North: ☐ High Concentration West: Grab ☐ 5-Point Composite Sample Location Map: **Analysis** Preservative. 4° C ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Duplicate Sample Taken **Observations and Notes:**

Sample No.__

OPIGINAL

SOIL SAMPLE LOG SHEET	SATA REGION III
	GANGUEN # 2/ 07
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: \$75-86-03
PCS No.: 6090	DATE: <u>1//3/2000</u>
WEATHER: Cloudy, light rain, SATA PERSONNEL: (b) (4)	C301, 40°
SATA PERSONNEL: 0) (1)	
☐ Surface Soil	ste 🗆 Other
Sample Method: Hand auger, disposable	Color:
plastic trowel, and disposable aluminum	Light to welcom brown
pan.	
Depth Sampled: 2.0-2.5 feet below ground	Description:
surface.	fine grained sand
Sample Date and Time: 1/13/2000	(Some organics)
Sampled by: (b) (4)	
Sampled by.	·
Signature(s):	1 '
faul u. De	
Sample Type	GPS Coordinates:
Low Concentration	North:
High Concentration	
Grab	West:
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	,
TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C	,
	-
	1
☐ Lead only 4° C	· ·
	†
☐ Duplicate Sample Taken	
Observations and Notes:	
CLP Nos. MC4 J95/ CX684	
Confirmation Sample.	
·	
1	

Sample No._

OPIGINAL

SOIL SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 13-86-09	
PCS No.: 6090	DATE: <u>2/14 /2000</u>	
WEATHER: Cloudy, light intermit	(b) (A)	
SATA PERSONNEL: (b) (4)	(5) (4)	
Surface Soil Subsurface Soil Waste Other		
Sample Method: Hand shovel, disposable	Color:	
plastic trowel, and disposable aluminum	Const	
pan.	Gray	
Depth Sampled: 0 to 12 inches below	Description:	
ground surface.	511+	
Sample Date and Time: (b) (4)		
2/14/2000 at 1/45	(ash?)	
Sampled by: (b) (4)	(ash:)	
Signature(s):		
faul 625	GPS Coordinates:	
Sample Type Low Concentration	·	
☐ High Concentration	North: 39° 44' 06.870 428 891"	
Grab	West: 75° 31′ 33,520739 201″	
	33,45,13,124	
☐ 5-Point Composite		
☐ 5-Point Composite Analysis Preservative	Observations and Notes:	
☐ 5-Point Composite Analysis Preservative ☐ TCL VOAs 4° C	Observations and Notes:	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C	Observations and Notes:	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C	Observations and Notes:	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C	Observations and Notes:	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C	Observations and Notes:	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ DNREC XRF Instrument 4° C	Observations and Notes:	
5-Point CompositeAnalysisPreservative□ TCL VOAs4° CTCL SVOAs4° CTCL Pesticides/PCBs4° CTAL Metals4° C□ DNREC XRF Instrument4° C□ Lead only4° C	Observations and Notes:	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ DNREC XRF Instrument 4° C □ Lead only 4° C □ Bio-assay (14-day acute test on	Observations and Notes:	
5-Point CompositeAnalysisPreservative□ TCL VOAs4° CTCL SVOAs4° CTCL Pesticides/PCBs4° CTAL Metals4° C□ DNREC XRF Instrument4° C□ Lead only4° CBio-assay (14-day acute test on earthworms)N/A	Observations and Notes:	
Analysis Preservative ☐ TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken Sample Location Map:	Observations and Notes:	
5-Point CompositeAnalysisPreservative□ TCL VOAs4° CTCL SVOAs4° CTCL Pesticides/PCBs4° CTAL Metals4° C□ DNREC XRF Instrument4° C□ Lead only4° C□ Bio-assay (14-day acute test on earthworms)N/A□ Duplicate Sample Taken	Observations and Notes:	
Analysis Preservative ☐ TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken Sample Location Map:	Observations and Notes:	
Analysis Preservative ☐ TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken Sample Location Map:	Observations and Notes:	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ DNREC XRF Instrument 4° C □ Lead only 4° C □ Bio-assay (14-day acute test on earthworms) N/A □ Duplicate Sample Taken Sample Location Map:	Observations and Notes:	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ DNREC XRF Instrument 4° C □ Lead only 4° C □ Bio-assay (14-day acute test on earthworms) N/A □ Duplicate Sample Taken Sample Location Map:	Observations and Notes:	
Analysis Preservative ☐ TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Bio-assay (14-day acute test on earthworms) N/A ☐ Duplicate Sample Taken Sample Location Map:	Observations and Notes:	

Sample No.___

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SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 15 SED 03
PCS No.: <u>6090</u>	DATE: <u>1/ /2000</u>
WEATHER: Partly Sunny, Cool, 500 bine	20/
SATA PERSONNEL: (b) (4)	

	
Sample Method: Disposable plastic trowe	Color:
and disposable aluminum pan.	Dark 9ray
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Silt Sum organics
Sample Date and Time: 1/1/2000	and the
@ 0950	Pagg. 7
Sampled by: (b) (4)	
	•
Signature(s)	
Paulas .	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 17. 236 4749"
☐ High Concentration	77 77 77 77 77 77 77 77 77 77 77 77 77
Grab	West: 75° 31' 35, 386 170 638''
☐ 5-Point Composite	11001. 75 = 20 , 500 , 70 030
Analysis Preservativ	e Sample Location Map:
☐ TCL VOAs 4°	7
☐ TCL SVOAs 4°	
☐ TCL Pesticides/PCBs 4° (7327
☐ TAL Metals 4°	
	
DNREC XRF Instrument 4°	<u>~</u>
	<u> </u>
☐ Duplicate Sample Taken	-
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	\[\lambda_1\]
144	
Neur bank - concrete built	
head.	
•	

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <u>73-5E0-04</u>
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Partly Sunny, cool,	30° windy
SATA PERSONNEL: (b) (4)	

	<u> </u>
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Vark brown
Depth Sampled: 0 to 6 inches below creek	Dark brown Description: Sandy Sut
bed surface, during low tide.	Sandy Sut
Sample Date and Time: 1/1/2000	
(a) 0956	
Sampled by: (b) (4)	
Signature(s):]
fundm. D-	
Sample Type	GPS Coordinates:
Low Concentration	North: 390 44' 16,669581877"
High Concentration	·
Grab	West: 75° 31′ 35.25 1974 361′′
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	a ciki
☐ TCL Pesticides/PCBs 4° C	Bokhid
☐ TAL Metals 4° C	\ + 3
☐ Cyanide 4° C	\
DNREC XRF Instrument 4° C	
	\ \ \\
	\ \
	(1.4)*
	5.1.4)*
☐ Duplicate Sample Taken	5.1.1/4
Observations and Notes:	5.1.4)*
Observations and Notes: Collected from the eastern side mudflat of	5.1.4)*
Observations and Notes:	5.1.4)*
Observations and Notes: Collected from the eastern side mudflat of	
Observations and Notes: Collected from the eastern side mudflat of the Brandywine Creek.	
Observations and Notes: Collected from the eastern side mudflat of the Brandywine Creek.	
Observations and Notes: Collected from the eastern side mudflat of the Brandywine Creek.	
Observations and Notes: Collected from the eastern side mudflat of the Brandywine Creek.	

ORIGINGE

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-3E0-05
PCS No.: 6090 .	DATE: <u>1/ /2000</u>
WEATHER: Partly Sunny, Lool.	500 windy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	very five grand sand some
Sample Date and Time: 1/11/2000	· ·
1000	5.1+
Sampled by: (b) (4)	Quartz pesses
Signature(s): Pund m. Du	
Sample Type	GPS Coordinates:
Low Concentration	North: 390 44' 16,540857882"
☐ High Concentration	
Grab	West: 75° 31' 34, 855 661 384"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	Builtin
☐ TCL Pesticides/PCBs 4° C	Builcheal sed.3
☐ TAL Metals 4° C	sed.3
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
	:
<u> </u>	5.14 ×-
☐ Duplicate Sample Taken	
Observations and Notes:	Sed.5
Collected from the eastern side mudflat of	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
the Brandywine Creek.	2
collected next to cheerbank	
	i
	Ve.
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OPIGINAL

SEDIMENT SAMPLE LOG SHEET

WEATHER: Sunny, mild, 50°F, and breezy

SITE NAME: 12th Street Land Fill Site

PCS No.: 6187

SATA REGION III

SAMPLE No.: <u>75 - 5ED - 05A</u> DATE: <u>2/22/2000</u>

SATA PERSONNEL: (b) (4)	
	IC 1
Sample Method: Hand auger and a	Color: Black
disposable plastic trowel.	
Depth Sampled 6-7 inches below creek	Description:
bed surface.	Organic Silf w/ some
Sample Date and Time: 2/22/2000 at 0805	organic Silt w/ Sund leaty material
Sampled by: (b) (4)	1
Signature(s):	†
Paril DS	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 16.541''
☐ High Concentration	
Grab	West: 75° 31′ 34.855′
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	, ,
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	<u>,</u>
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	· · · · · · · · · · · · · · · · · · ·
Observations and Notes:	
10.00	
Collected from the eastern side mudflat of	į.
the Brandywine Creek.	·
·	
	·

Sample No.

ON RIAIN,

SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SAMPLE No.: 73-520-05B

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 73-520-05B
PCS No.: 6187	DATE: <u>2/22/2000</u>
WEATHER: Sunny, mild, 50°F, and breezy	
SATA PERSONNEL: (b) (4)	
Sample Method: Hand auger and a	Color:
disposable plastic trowel.	Black
Depth Sampled: 12-13 inches below creek	Description:
bed surface.	organic Silt with some
Sample Date and Time: 2/22/2000 at 0810	organic Silt with some
Sampled by: (b) (4)	Teatof mai -
Simplified by.	
Signature(s): Paul D_5	'
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 16.541''
High Concentration	
Grab	West: 75° 31′ 34.855′
5 Daint Composite	
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
AnalysisPreservative□ TCL VOAs4° C	Sample Location Map:
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C	Sample Location Map:
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C	Sample Location Map:
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C□ TAL Metals4° C	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C ■ DNREC XRF Instrument 4° C □ Lead only 4° C	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C Duplicate Sample Taken	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C ■ DNREC XRF Instrument 4° C □ Lead only 4° C	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Duplicate Sample Taken Observations and Notes:	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Duplicate Sample Taken Observations and Notes: Collected from the eastern side mudflat of	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Duplicate Sample Taken Observations and Notes:	Sample Location Map:

Sample No.		
samible ino.		

ORIGINAL.

SEDIMENT SAMPLE LOG SHEET

	CANDIDAL TT/
SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 73-5ED-06
	DATE 1/ - /2000
PCS No.: 6090	DATE: <u>1/ // /2000</u>
	,
WEATHER: Partly Sunny, Gool, 500	briez-1
SATA PERSONNEL: (b) (4)	
Billi Bill Citi (22)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dark brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	- Silty Some Clay.
Sample Date and Time: 1/1/2000	
@ 1005	_
Sampled by: (b) (4)	
	_
Signature(s):	
Paula. St	
Sample Type	GPS Coordinates:
Low Concentration	North: 390 44' 16,197008496"
High Concentration	
Grab	West: 75° 31' 34.928056924"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	Bull
☐ TCL Pesticides/PCBs 4° C	B. 16 head
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	7 / 7 /
	\neg
	(+'
☐ Duplicate Sample Taken	7 / /
Observations and Notes:	- 5rd 6 1
Collected from the eastern side mudflat of	- 510.0
the Brandywine Creek.	
collected wat to Riphaplin	L
	I .

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 15-SED-07
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Partly Sunny, Coul, 500	en notif
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dask brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	- Silt with any in publics
Sample Date and Time: 1/11/2000	sit and las bebles
@ 1012	
Sampled by: (b) (4)	
Signature(s):	
funda do	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 16,08884854"
High Concentration	·
Grab	West: 75° 31' 34,6811987'
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	_
☐ TAL Metals 4° C	_]
☐ Cyanide 4° C	<u> </u>
DNREC XRF Instrument 4° C	<u> </u>
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
Called A sold in a	
collected next to cruechant	.
lader Kon de la	
collect confirmation metals less	
I	.1

SITE NAME: 12th Street Land Fill Site

☐ Duplicate Sample Taken **Observations and Notes:**

the Brandywine Creek.

Confirmation analysis.

CLP No.: 1164 752

Collected from the eastern side mudflat of

SATA REGION III

SAMPLE No.: TS-SED-07

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 17-360-67
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Partly Sunny, cool	, 50° windy
SATA PERSONNEL: (b) (4)	
SHITT EXOCITIVES.	
Sample Method: Disposable plastic trowel	Color:
· · · · · · · · · · · · · · · · · · ·	Dark brown
and disposable aluminum pan.	Description:
Depth Sampled: 0 to 6 inches below creek	
bed surface, during low tide.	Silt in/ angula-peobles
Sample Date and Time: 1/11/2000	
@ jo182	4
Sampled by: (b) (4)	
]
Signature(s):	,
Part Din	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 16.08884854"
☐ High Concentration	
Grab	West: 75° 31' 34.6811987'
	1 WCSL 10 21 27.001.10.
1 	West. 10 31 37.0811 18.
☐ 5-Point Composite	
☐ 5-Point Composite Analysis Preservative	
☐ 5-Point Composite Analysis Preservative ☐ TCL VOAs 4° C	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C	
□ 5-Point Composite Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C	

Samp	le	No.	

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <u>73 -360-07A</u>
PCS No.: 6187	DATE: <u>2/22/2000</u>
WEATHER: Sunny, mild, 50°F, and breezy	
SATA PERSONNEL: (b) (4)	

Sample Method: Hand auger and a disposable plastic trowel.	Color: Orange brown
Depth Sampled:5-6 inches below creek	Description:
bed surface.	5,14 Sand - pebbly.
Sample Date and Time: 2/22/2000 at 6820	3,779 38,700 7000 7
Sampled by: (b) (4)	
Signature(s): Park De	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 16.088''
☐ High Concentration	
Grab	West: 75° 31′ 34.681′′
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
TCL VOAs 4° C	, · · · · · · · · · · · · · · · · · · ·
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C ☐ Cvanide 4° C	
	1
☐ Lead only 4° C	
	1
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	İ
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Sampl	le	No.		

OPIGINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: TS-SED-08
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Partly Sunny, (oct, 50°.	windy
SATA PERSONNEL: (b) (4)	(b) <u>Y</u>

Sample Method: Disposable plastic trowel	Color: (Do-z gray min)
and disposable aluminum pan.	medium brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Suf Sans also
Sample Date and Time: 1/1/2000	Sitt some clay
@ 1023	
Sampled by: (b) (4)	
Signature(s):	
Parlas. Des	·
Sample Type	GPS Coordinates:
Low Concentration	North: 390 44' 15,802521201"
☐ High Concentration	
Grab	West: 75° 31' 34, 664207791'
5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	· · · · · · · · · · · · · · · · · · ·
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	,
☐ TAL Metals. 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
idlected next to rigrapline	
Gily adurs	
j	1

ORIGINAL

SEDIMENT SAMPLE LOG SHEET

WEATHER: Sunny, mild, 50°F, and breezy

SITE NAME: 12th Street Land Fill Site

PCS No.: 6187

SATA REGION III

SAMPLE No.: <u>73-5=0-08</u>A DATE: <u>2/22/2000</u>

SATA PERSONNEL: (b) (4)	
Sample Method: Hand auger and a	Color: Grayish - black
disposable plastic trowel.	
Depth Sampled: 6-7 inches below creek	Description:
bed surface. Sample Date and Time: 2/22/2000 at 0830	Silty Clay
Sample Date and Time. 2/22/2000 at 00/0	(T
Sampled by: (b) (4)	
Signature(s): Paul DZ	
part 102	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44′ 15, 802″
High Concentration	
Grab	West: 75° 31' 34.664"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C	
☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C	•.
☐ Lead only 4° C	·
Lead only + C	
	· · · · · · · · · · · · · · · · · · ·
☐ Duplicate Sample Taken	1
Observations and Notes:	·
	·
Collected from the eastern side mudflat of	
the Brandywine Creek.	
,	
	· · ·

Sample No._

PIGINE

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site

PCS No.: 6187

SATA REGION III

SAMPLE No.: 73-5ed-0813

DATE: <u>2/22/2000</u>

WEATHER: Sunny, mild, 50°F, and breezy	·
SATA PERSONNEL: (b) (4)	
Sample Method: Hand auger and a disposable plastic trowel.	Color: Grayish - black
Depth Sampled: 11-13 inches below creek	Description:
bed surface.	
Sample Date and Time: 2/22/2000 at 0835	Silty Clay
Sampled by: (b) (4)	
Signature(s): Park D	
	CPC C L'andre
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 15.802'
☐ High Concentration ☐ Grab	West: 75° 31′ 34.669″
5-Point Composite	West. 75 37
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	Sample Boundaries
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	1
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
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Sample No.

OPIGINER

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-SED-09
PCS No.: <u>6090</u>	DATE: <u>1/ // /2000</u>
WEATHER: Partly Sunny, cool, 500,	windy
SATA PERSONNEL:(b) (4)	

•	
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Reddish-brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Sandy Suit was
Sample Date and Time: 1/11/2000	Sandy Soit went four peoples
@ 1030	
Sampled by: (b) (4)	,
	·
Signature(s).	·
Panlas kin	
Sample Type	GPS Coordinates:
Low Concentration	North: 390 44' 15.520096058"
☐ High Concentration	
Grab	West: 75° 31′ 34.390347402 "
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
·	
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
·	
collected next to creek bank	
	· · · · · · · · · · · · · · · · · · ·

SAMPLE No.: 75-SED-09A
DATE: <u>2/22/2000</u>

	Colom
Sample Method: Hand auger and a	Color: Gregish brown
disposable plastic trowel.	
Depth Sampled: 5-7 inches below creek	Description:
bed surface.	
Sample Date and Time: 2/22/2000 at 0840	Silty Clay
Sumpro 2 and annual 2 and 2	, , , , , , , , , , , , , , , , , , ,
Sampled by: (b) (4)	
Signature(s): Paul D	·
faul &	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 15, 52"
☐ High Concentration	13, 37 94 73, 32"
Grab	West: 75° 31′ 34. 39′
☐ 5-Point Composite	17 54. 57
	Sample Leastion Many
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cvanide 4° C	•
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	
Observations and rotes.	·
Collected from the eastern side mudflat of	
•	
the Brandywine Creek.	
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Sample	No.	

PAIGINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 73-5ED-09 B
PCS No.: 6187	DATE: <u>2/22/2000</u>
WEATHER: Sunny, mild, 50°F, and breezy	
SATA PERSONNEL: (b) (4)	
Sample Method: Hand auger and a	Color: Grafish brown
disposable plastic trowel.	
Depth Sampled: 11-13 inches below creek	Description:
bed surface.	Silty clay.
Sample Date and Time: 2/22/2000 at 0845	
(b) (d)	:
Sampled by: (b) (4)	
Signature(s): paul D	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 15.52'
☐ High Concentration	
Grab	West: 75° 31′ 34.39″
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	·
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C ☐ Cyanide 4° C	;
L Cyanico	•
D. II Comments	
☐ Lead only 4° C	· .
	1
☐ Duplicate Sample Taken	•
Observations and Notes:	1
Ouser various and rotes.	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
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Sample	NO.	

PARGINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: TS-SED-10
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Fartly Sunger, Cool, 500	windig
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dork gray
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	1144 - 016il.
Sample Date and Time: 1/1/2000	clay-pebbly-
W 1035	
Sampled by: (b) (4)	·
Signature(s):	
Paul m. St. 5	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 15,302743212"
☐ High Concentration	•
Grab	West: 75° 31' 34,409081666"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	·
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
	·
☐ Duplicate Sample Taken	
Observations and Notes:	1
Collected from the eastern side mudflat of	·
the Brandywine Creek.	
	·
I died out to be a	
Collected MXX 10 PIDIAD line	·
coilected next to riprapline	
Collecter that to Piprap line	
Collecter that the Corap line	
Collecter that to Proporting	

OPIGIALAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <i>TS-SED-10</i>
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Partly Sunny, well, 500	windy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color: Dark gray
and disposable aluminum pan.	
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface.	clay- pessing
Sample Date and Time: 1/1/2000	, , ,
(a) 103.5	`
Sampled by: (b) (4)	,
Signature(s):	
Soul Do	
Sample Type	GPS Coordinates:
Low Concentration	North: 390 44' 15,302743212'
High Concentration	
Grab	West: 75° 31′ 34.409081666′′
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
TCL SVOAs 4° C	;
☐ TCL Pesticides/PCBs 4° C	
TAL Metals 4° C	
☐ Cyanide 4° C	
☐ DNREC XRF Instrument 4° C	
☐ Lead only 4° C	,
,	
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
CLP No. : MC4 J54 / Cx 654	· · ·
Background Sample.	

Sampi	le.	No.	•
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SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-5ED-11
PCS No.: 6090	DATE: 1/ // /2000
WEATHER: Partly Sunny, cool, windy,	50"
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	medium brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	- 5114 and clay.
Sample Date and Time: 1/1/2000	! · · · · · · · · · · · · · · · · · · ·
@ 1045	(dark gray clay)
Sampled by: (b) (4)	
Signature(s):	
Paul Des	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 15. 2050 55908"
☐ High Concentration	
Grab	West: 75° 31' 34, 139154718"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	·
☐ TCL Pesticides/PCBs 4° C	1
☐ TAL Metals 4° C	
☐ Cyanide 4° C	1
DNREC XRF Instrument 4° C	,
	1
Dula	<u>'</u>
Duplicate Sample Taken 73 Dupacii	·
Observations and Notes:	
Collected from the eastern side mudflat of	·
the Brandywine Creek.	
-collected next to	,
,	
CHEK bank	
- continu collected here fer	
Mitals	<u> </u>

ORIGINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 73-3ED-11
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Partly Sunny, cool,	windy, 500
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	medium brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	sult and class
Sample Date and Time: 1/1/2000	(dark gray clay)
@ 1045	(dark gray clay)
Sampled by: (b) (4)	
Signature(s):	
fand w. L=	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 15.205055908"
☐ High Concentration	
Grab	West: 75° 31′ 34, 139154718′′
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
☐ DNREC XRF Instrument 4° C	•
Lead only (TAL netuls) 4°C	
Duplicate Sample Taken Product	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
	·
Confirmation analysis.	
CLP No.: MCYT53	·
CLP No.: MCYJ53	

ORIGINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <u>73-5ED-11 A</u>
PCS No.: 6187	DATE: <u>2/22/2000</u>
WEATHER: Sunny, mild, 50°F, and breezy	
SATA PERSONNEL: (b) (4)	

Sample Method: Hand auger and a	Color: Grafish black
disposable plastic trowel.	
Depth Sampled: 6-7 inches below creek	Description:
bed surface.	City Class
Sample Date and Time: 2/22/2000 at 0855	Silty Clay.
	•
Sampled by: (b) (4)	
Signature(s): Part &	
pan x	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 15. 205"
High Concentration	,
Grab	West: 75° 31′ 34, 139′′
5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	·
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	•
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
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ample	INO.	

PAIGNAL

SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 73-5ed-11 B
PCS No.: 6187	DATE: <u>2/22/2000</u>
WEATHER: Sunny, mild, 50°F, and breezy	
SATA PERSONNEL: (b) (4)	

Sample Method: Hand auger and a	Color: Grayish-black
disposable plastic trowel.	
Depth Sampled: 11-13 inches below creek	Description:
bed surface.	Silty Clay
Sample Date and Time: 2/22/2000 at 0900	9
	,
Sampled by: (b) (4)	•
Signature(s): fand of	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 15. 205"
☐ High Concentration	1 ,
Grab	West: 75° 31′ 34,139″
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	·
Observations made	
Collected from the eastern side mudflat of	
the Brandywine Creek.	· ·
the Brandy with East	1

Sample No.

PIGNAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: TS-SED-12
PCS No.: 6090	DATE: <u>1/ / 2_/2000</u>
WEATHER: Partly Sunny, Cool, 400.	breezy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Description: 40 med, gray
Depth Sampled: 0 to 6 inches below creek	Description.
bed surface, during low tide.	Siltyclay
Sample Date and Time: 1/12/2000	
Sampled by: (b) (4)	
Signature(s):	
Paul D	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 14.867411495"
☐ High Concentration	1101111. 51 44 1 747867777475
Grab	West: 75° 31' 34.29202802'
5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	•
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	·
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
	·
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
	. *
collected along riprapline	
,	·

OPIGINA

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75->ED-13
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Partly Sonnt (001, 500; 0	wandy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel and disposable aluminum pan.	Color: Tan - reddish dark gray
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	l ~
Sample Date and Time: 1/11/2000	5.14 clay
Sampled by: (b) (4)	
Signature(s):	
Paul in De	
Sample Type	GPS Coordinates:
Low Concentration	North: 35° 44' 14,597400232''
High Concentration	
Grab	West: 75° 31′ 34,111 454 382′
5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	·
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
	,
☐ Duplicate Sample Taken	·
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	3
- collected next to bunk	,
	1
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OKINAK

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-3E0-14
PCS No.: 6090	DATE: 1/12/2000
	breeze
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dark gray
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Silty clay
Sample Date and Time: 1/12/2000	3777
0825	
Sampled by: (b) (4)	
Signature(s)	
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 14.350413586"
☐ High Concentration	1 7.3307.3306
Grab	West: 75° 31' 34.324712371"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	•
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	·
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
	•
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
in Brand, will break	
- collected along riprapline	•
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collicited confirm, TALMetallie	K
	·

OPIGINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 15-5=0-14
PCS No.: 6090	DATE: <u>1/ /2 /2000</u>
WEATHER: Portly Sugar, co.	1, 40° 6-12 my
SATA PERSONNEL: (b) (4)	•
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dark gray
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	
Sample Date and Time: 1/12/2000	Silty Clay
0825	
Sampled by: (b) (4)	
· · · · · · · · · · · · · · · · · · ·	
Signature(s):	
Paul DE	CDC Counting to
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 14.350 413586"
High Concentration	West: 75° 31′ 34, 32 4712 371 "
Grab	West: 73 37 37,329712371
☐ 5-Point Composite	•
	Comple Legation Man:
Analysis Preservative	Sample Location Map:
AnalysisPreservative□ TCL VOAs4° C	Sample Location Map:
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C	Sample Location Map:
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C	Sample Location Map:
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C□ TAL Metals4° C	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRE Instrument 4° C	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only (TAL Metals) 4° C	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRE Instrument 4° C ☐ Lead only (TAL Markets) 4° C ☐ Duplicate Sample Taken	Sample Location Map:
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C DNREC XRF Instrument 4° C Lead only (TAL MLIALS) 4° C Duplicate Sample Taken Observations and Notes:	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only (TAL Metals) 4° C ☐ Duplicate Sample Taken Observations and Notes: Collected from the eastern side mudflat of	Sample Location Map:
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C DNREC XRF Instrument 4° C Lead only (TAL MLIALS) 4° C Duplicate Sample Taken Observations and Notes:	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only (TAL Metals) 4° C ☐ Duplicate Sample Taken Observations and Notes: Collected from the eastern side mudflat of	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only (TAL ML als) 4° C ☐ Duplicate Sample Taken Observations and Notes: Collected from the eastern side mudflat of the Brandywine Creek.	Sample Location Map:

Samp	le I	No. <u>⊥</u>				
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PARSIA

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-5E0-15
PCS No.: 6090	DATE: 1/ // /2000
WEATHER: 6/00/4, Cost,	500 - windy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	6-4
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Silty clay
Sample Date and Time: 1/11/2000	, ,
<u>(A) 1110</u>	·
Sampled by: (b) (4)	·
Signature(s):	
poul is. In	GRO G
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 14. 1405 72863"
☐ High Concentration	
Grab	West: 75° 31' 34.020466487"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	·
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
DNA	
☐ Duplicate Sample Taken FDZ	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	-
collected new bank	
coilect contiem Talmetals/Soun	
,	

ORIGINAL.

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site

PCS No.: 6090

SATA REGION III

SAMPLE No.: TS-SED-15

Sample No.____

DATE: 1/ // /2000

WEATHER: Claudy, cool, 500	windy
SATA PERSONNEL: (b) (4)	
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	6-14
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface.	Sulfaci
Sample Date and Time: 1/1/2000	Silty clay
(D) 1118	
Sampled by: (b) (4)	·
	-
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 14.14 0572863'
☐ High Concentration	j ,
Grab	West: 75° 31' 34,020466487"
☐ 5-Point Composite	'
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	1
TCL SVOAs 4° C	·
☐ TCL Pesticides/PCBs 4° C	
TAL Metals 4° C	
☐ Cyanide 4° C	
☐ DNREC XRF Instrument 4° C	_
☐ Lead only 4° C	
·	
FD.0	,
Duplicate Sample Taken FD-02 FD-0	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
without next to much bond	
1	,
CLP No.: MCY J55 / CX664	·
Background Sample. FOOI MCY JAG / CKG 45	

OPICINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	_ SAMPLE No.: <u>75 Scd 15 A</u>
PCS No.: 6187	DATE: <u>2/22/2000</u>
WEATHER: Sunny, mild, 50°F, and breezy	
SATA PERSONNEL: (b) (4)	

Sample Method: Hand auger and a	Color: Grayish - black
disposable plastic trowel.	
Depth Sampled: 5-7 inches below creek	Description:
bed surface.	(14, 61,
Sample Date and Time: 2/22/2000 at 6910	Silty Clay.
(1) (1)	l
Sampled by: (b) (4)	
Signature(s): Poul D ~	
pina 10 ~	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 14, 14'
☐ High Concentration	
Grab	West: 75° 31′ 34.62″
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	,
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	·
☐ Lead only 4° C	
	, ,
7	
☐ Duplicate Sample Taken	·
Observations and Notes:	
Object various and two test	'
Collected from the eastern side mudflat of	·
the Brandywine Creek.	
the Brandy while Creek.	
·	
;	
•	

Sample No.	

ORIGINAL.

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: ならをロー15 B
SHE NAME. 12th Street Land 1 th Site	
BCC 31 (107	DATE: 2/22/2000
PCS No.: 6187	DATE. <u>2/22/2000</u>
WEATHER: Sunny, mild, 50°F, and breezy	<u> </u>
SATA PERSONNEL: (b) (4)	
SATATERSONIEE.	

Sample Method: Hand auger and a	Color: Grayish - black
disposable plastic trowel.	
Depth Sampled: #-13 inches below creek	Description:
bed surface.	Silfy Clay
Sample Date and Time: 2/22/2000 at 0920	+
Sampled by: (b) (4)	
Signature(s): Paul D	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 14, 141"
☐ High Concentration	
Grab	West: 75° 31′ 34.02′
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	9
Collected from the eastern side mudflat of	
the Brandywine Creek.	
·	
	·
	•
	, i

Sample	Ĭ	0
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OICIAIAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: T5-SED-16
PCS No.: 6090	DATE: <u>1/ 11 /2000</u>
	windy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dork brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	11ay-511ty
Sample Date and Time: 1/11/2000	
@ 1128	
Sampled by: (b) $D(b)$ (4)	·
(4)	
Signature(s):	· ·
four sais	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 13,89016635"
High Concentration	West: 75° 31′ 34,136466529"
Grab	West: 13 31 37,136966527
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C	
□ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C	
□ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C	
□ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C	
□ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C ■ DNREC XRF Instrument 4° C	
□ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C ■ DNREC XRF Instrument 4° C Duplicate Sample Taken	
□ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C ■ DNREC XRF Instrument 4° C Duplicate Sample Taken Observations and Notes:	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of	
□ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C ■ DNREC XRF Instrument 4° C Duplicate Sample Taken Observations and Notes:	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of the Brandywine Creek.	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of the Brandywine Creek.	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of the Brandywine Creek.	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of the Brandywine Creek.	

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <i>TS-SED-17</i>
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Cloudy, windy, cost	1500
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	orange brown to gray
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	, ~
Sample Date and Time: 1/1/2000	5.1 by Sand
@ 1/35	
Sampled by: (b) (4)	•
Sampled by.	
Ciamatura (a)	
Signature(s):	
Panl Do	GPS Coordinates:
Sample Type	
Low Concentration	North: 39° 44′ 13.641336146"
High Concentration	West: 15° 31′ 33.878444855"
Grab	West: 13 31 33.8 18 779 853
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	·
Billing in a second	N.
00	·
Duplicate Sample Taken 75- 000-03	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
- confirm TAL metals + 500A	
collected here	
+ collected next to bank	
The state of the s	
· · · · · · · · · · · · · · · · · · ·	

SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-5E0-17
PCS No.: 6090	DATE: <u>1/ // /2000</u>
WEATHER: Cloudy, cool, wie	dy, 500
SATA PERSONNEL: (b) (4)	
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	orange brown to gray
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface.	
Sample Date and Time: 1/11/2000	Silty Sand
E ³ 1135	
Sampled by: (b) (4)	
Signature(s):	
fourt nous	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 13.64 13 36146"
High Concentration	
Grab	West: 75° 31' 33.818444855''
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TCL Pesticides/PCBs 4° C TAL Metals 4° C	
□ TCL Pesticides/PCBs 4° C ■ TAL Metals 4° C □ Cyanide 4° C	
□ TCL Pesticides/PCBs 4° C ■ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C	
□ TCL Pesticides/PCBs 4° C ■ TAL Metals 4° C □ Cyanide 4° C	
□ TCL Pesticides/PCBs 4° C ■ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C	
□ TCL Pesticides/PCBs 4° C ■ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C □ Lead only 4° C	
□ TCL Pesticides/PCBs 4° C ■ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C □ Lead only 4° C 4° C	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Lead only 4° C ☐ Duplicate Sample Taken /> Day 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Lead only 4° C ☐ Cyanide 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Cyanide 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Cyanide 4° C	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Lead only 4° C ☐ Cobservations and Notes: Collected from the eastern side mudflat of the Brandywine Creek.	
□ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C □ Lead only 4° C □ Lead only 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C □ Lead only 4° C	
☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only 4° C ☐ Lead only 4° C ☐ Cobservations and Notes: Collected from the eastern side mudflat of the Brandywine Creek.	

Sample No._

OPIGINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <u>rs-se0-18</u>
PCS No.: 6090	DATE: <u>1/1 2/2000</u>
WEATHER: Partly Sunny, cool, 400,	breezy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Color: Dark brown (some orange)
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Silke fore and I am
Sample Date and Time: 1/12/2000	Silty fine grand sind
@ 0835	with some clay
Sampled by: (b) (4)	'
Signature(s): (1)	:
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44′ 13.381340922"
☐ High Concentration	
Grab	West: 75° 31′ 33.98853707"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide · 4° C	
DNREC XRF Instrument 4° C	
	·
☐ Duplicate Sample Taken	• *
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
rollected along	
- collected along ripropled	<u> </u>
- continu to TAC metals/sonA	
CONSTANTON 101 1HC INCHOS SONA	\mathbf{l}
, rez	}
Vely Smell	

ORIGINIA

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-5E0-18
PCS No.: 6090	DATE: <u>1//Z/2000</u>
WEATHER: Partly Sunny, (001, 400	breezy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel and disposable aluminum pan.	Color: Dark brown (South orange)
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface.	-
Sample Date and Time: 1/12/2000	Silty tine grand sund
w 0835	
Sampled by: (b) (4)	with some clay.
Sampled by:	PILLES OF brown glass and
Signature(s):	polices of brown glass and
in in a	, , , , , , , , , , , , , , , , , , , ,
Sample Type	GPS Coordinates:
Low Concentration	
	North: 39° 44' 13.381340922"
High Concentration	West: 75° 31′ 33.98853707′′
Grab	West: 13 31 33, 18 \$ 5370 7
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
TCL SVOAs 4° C	,
☐ TCL Pesticides/PCBs 4° C	
TAL Metals 4° C	
☐ Cyanide 4° C	
☐ DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
oily Smeil	
CLP No.: MCYJ6//C X665	,
•	
Body S.	
contact along riprapline	

Sampl	e No.	

OPIGINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site

PCS No.: 6187

SATA REGION III

SAMPLE No.: 75-5ED-18A

DATE: <u>2/22/2000</u>

WEATHER: Sunny, mild, 50°F, and breezy	
SATA PERSONNEL: (b) (4)	
	· · · · · · · · · · · · · · · · · · ·
Sample Method: Hand auger and a	Color: Grayish - black
disposable plastic trowel.	0 1/00
Depth Sampled: 5-7 inches below creek	Description:
bed surface.	Silty clay
Sample Date and Time: 2/22/2000 at 0930	<i>f</i>
Sampled by: (b) (4)	
Signature(s): And Drie	
forme was	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 13, 381'
☐ High Concentration	•
Grab	West: 15° 31′ 33.988″
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	·
☐ TCL Pesticides/PCBs 4° C	•
☐ TAL Metals 4° C	·
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
	·
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
	·
Oily shein - weloil	
odors	
	·
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Sample No._

PORMAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 13-5E0-19
PCS No.: 6090	DATE: <u>1//Z /2000</u>
WEATHER: Partly Sungy (001, 400)	b.rezy
SATA PERSONNEL: (b) (4)	

	~
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Silfy clay
Sample Date and Time: 1/12/2000	3/11/ 2/29
@ 0850	
Sampled by: P(b) (4)]
Signature(s):	1
fail in fors	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 13.175 /19333''
☐ High Concentration	17 17 17 17 19333
Grab	West: 75° 31' 33.833766731"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	1 • • • • • • • • • • • • • • • • • • •
☐ TCL SVOAs 4° C	i
☐ TCL Pesticides/PCBs 4° C	1
☐ TAL Metals 4° C	
☐ Cyanide 4° C	· · · · · · · · · · · · · · · · · · ·
DNREC XRF Instrument 4° C	1
Divide Aid morament	†
	1
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
life Dianaywine Creek.	
Collected next to bank	1
- collected contirme. TAK mat her	
Consider continue. TAKINGT. LEN	4
	·
· · · · · · · · · · · · · · · · · · ·	

OPIONAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site

PCS No.: 6090

SATA REGION III

SAMPLE No.: TS-SED-23

DATE: 1/12/2000

WEATHER: Facting Su.	and, Looi,	40° boury
SATA PERSONNEL: (b) (4)		
Sample Method: Disposable	-	Color:
and disposable aluminum pan	l•	Brown
Depth Sampled: 0 to 6 inches	s below creek	Description:
bed surface, during low tide.		
Sample Date and Time: 1/12	/2000	Silty Sand
(w) 091	18	Sinty Sand Some organics (routs) pieces of ribber hose
Sampled by: (b) (4)		
		preces of 15500 hose
Signature(s):		
Aunt M. W.		
Sample Type		GPS Coordinates:
Low Concentration		North: 39° 44' 12.185275279"
☐ High Concentration		
Grab		West: 75° 31′ 33.578530379 ′
☐ 5-Point Composite		
Analysis	Preservative	Sample Location Map:
☐ TCL VOAs	4° C	
☐ TCL SVOAs	4° C	
☐ TCL Pesticides/PCBs	4° C	
☐ TAL Metals	4° C	
☐ Cyanide	4° C	
☐ DNREC XRF Instrument	4° C	
Lead only	4° C	

Confirmation analysis.

the Brandywine Creek.

CLP No.: MCYJ 65

☐ Duplicate Sample Taken

Observations and Notes:

Collected from the eastern side mudflat of

collected next to bank

Sample No.

ORICINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75 SED 18 B
PCS No.: 6187	DATE: 2/22/2000
WEATHER: Sunny, mild, 50°F, and breezy	
SATA PERSONNEL: (b) (4)	
SATA PERSONNEL.	·

Sample Method: Hand auger and a disposable plastic trowel.	Color: Gray 154 - black
Depth Sampled: ii-13 inches below creek	Description:
bed surface.	-
Sample Date and Time: 2/22/2000 at 6940	Silty Clay.
	′ σ
Sampled by: (b) (4)	
Signature(s): Aund Q=	
pane win	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44′ 13.381″
☐ High Concentration	į
Grab	West: 75° 31′ 33.988″
☐ 5-Point Composite	C. I. I Many
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
	1
☐ Duplicate Sample Taken	
☐ Duplicate Sample Taken Observations and Notes:	
Observations and Notes:	
Observations and Notes: Collected from the eastern side mudflat of	
Observations and Notes:	
Observations and Notes: Collected from the eastern side mudflat of	
Observations and Notes: Collected from the eastern side mudflat of the Brandywine Creek.	
Observations and Notes: Collected from the eastern side mudflat of the Brandywine Creek.	
Observations and Notes: Collected from the eastern side mudflat of	
Observations and Notes: Collected from the eastern side mudflat of the Brandywine Creek.	

PIGNA

SEDIMENT SAMPLE LOG SHEET

-collected next to bank

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 73-3E0-19
PCS No.: 6090	DATE: <u>1/1Z_/2000</u>
WEATHER: Partly Sunny, Cool,	bruzy, 40°
SATA PERSONNEL: (b) (4)	
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	5.14 Clay
Sample Date and Time: 1/12 /2000	, , , , , , , , , , , , , , , , , , ,
P 0350	
Sampled by: (b) (4)	·
Ciamatuma(a):	1
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 13.175/19333''
☐ High Concentration	
Grab	West: 15° 31' 33,833166731"
l ==	
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
AnalysisPreservative□ TCL VOAs4° C	Sample Location Map:
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C	Sample Location Map:
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C	Sample Location Map:
AnalysisPreservative□ TCL VOAs4° C□ TCL SVOAs4° C□ TCL Pesticides/PCBs4° C□ TAL Metals4° C	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C	Sample Location Map:
Analysis Preservative □ TCL VOAs 4° C □ TCL SVOAs 4° C □ TCL Pesticides/PCBs 4° C □ TAL Metals 4° C □ Cyanide 4° C □ DNREC XRF Instrument 4° C Lead only (TAL metals) 4° C	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only (TAL metals) 4° C	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only (TAL materix) 4° C ☐ Duplicate Sample Taken Observations and Notes:	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only (TAL metals) 4° C ☐ Duplicate Sample Taken Observations and Notes: Collected from the eastern side mudflat of	Sample Location Map:
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C DNREC XRF Instrument 4° C Lead only (TAL metals) 4° C Duplicate Sample Taken Observations and Notes:	Sample Location Map:
Analysis Preservative ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Lead only (TAL waters) 4° C ☐ Duplicate Sample Taken Observations and Notes: Collected from the eastern side mudflat of	Sample Location Map:
Analysis Preservative TCL VOAs 4° C TCL SVOAs 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C DNREC XRF Instrument 4° C Lead only (TAL metals) 4° C Duplicate Sample Taken Observations and Notes: Collected from the eastern side mudflat of the Brandywine Creek. Confirmation analysis.	Sample Location Map:
Analysis Preservative TCL VOAS 4° C TCL SVOAS 4° C TCL Pesticides/PCBs 4° C TAL Metals 4° C Cyanide 4° C DNREC XRF Instrument 4° C Lead only (TAL Metals) 4° C Duplicate Sample Taken Observations and Notes: Collected from the eastern side mudflat of the Brandywine Creek.	Sample Location Map:

Sample No._____

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: TS SED-ZO
PCS No.: <u>6090</u>	DATE: <u>1/ / 4 / 2000</u>
WEATHER: Partly Sundy Cool, 400.	bace 21
SATA PERSONNEL: (b) (4)	(b)

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Park brown to tun
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Silty has grained sand
Sample Date and Time: 1/1/2000	
(D 0900	Semirounded quate pesses
Sampled by: (b) (4)	7
	, ,
Signature(s):	1
Paul m. D.=	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 12.903096335"
☐ High Concentration	
Grab	West: 75° 31' 33.992681293"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	~
☐ TCL Pesticides/PCBs 4° C	-
☐ TAL Metals 4° C	†
☐ Cyanide 4° C	†
DNREC XRF Instrument 4° C	· ·
Britise and instrument	,
	1
	· .
☐ Duplicate Sample Taken	- ·
Observations and Notes:	-
Collected from the eastern side mudflat of	
the Brandywine Creek.	`
	1
- collected next to riprogeline	
mil du de de	
	·
,	

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-5€0-21
SITE NAME: 12th Street Land 11h Site	
DCC No. 6000	DATE: 1/ /と /2000
PCS No.: <u>6090</u>	
WEATHER: Partly Sonny Lool, Greezy	Caro
	<u> </u>
SATA PERSONNEL: (b) (4)	
SATA PERSONNEL: 67 (7)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Darie brown to gray
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Silty Clay
Sample Date and Time: 1/12 /2000	·
@ 0905	Small subject pessles
Sampled by: P(b) (4)	
Signature(s):	•
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 12,75 234 2711"
☐ High Concentration	
Grab	West: 75° 31′ 33,724774455″
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	•
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	,
☐ TAL Metals 4° C	•
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	1
Divide Aid modument	
	·
☐ Duplicate Sample Taken	
Observations and Notes: Collected from the eastern side mudflat of	
the Brandywine Creek.	
coiluted with to bank	
WET TO BRAK	
·	•

SICINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-560-22
PCS No.: 6090	DATE: <u>1/ 12 /2000</u>
WEATHER: Partly sunnel, cool, 400,	breeze
SATA PERSONNEL: (b) (4)	•

	
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Brown yray
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	clayey silt
Sample Date and Time: 1/12/2000	·
6 0910	Small rounded guntz
Sampled by: P(b) (4)	pribles.
	J 75025.
Signature(s):	
Paul m. De	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' /2.430543/15"
☐ High Concentration	
Grab	West: 75° 31′ 33, 4134 273 13''
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	,
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
Divide Aid menument	
☐ Duplicate Sample Taken	
Observations and Notes:	· ·
Collected from the eastern side mudflat of	
	3
the Brandywine Creek.	
- collected along ripropline	
المرا م م المرا المر المر	•
L	

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 73 SE0-23
PCS No.: 6090	DATE: <u>1/ / 2/2000</u>
WEATHER: Partly Sugar, (601, 400,	bruz-(
WEATHER: <u>Partly Sugar</u> (641, 400, SATA PERSONNEL: (b) (4)	<u> </u>

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Biowa
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	
Sample Date and Time: 1/12/2000	Silty Sarch
@ 0918	Some organics (roots)
Sampled by: (b) (4)	i i
	picces of rusher-hose.
Signature(s):	in-1 Small pessies
pardon Do	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 12, 185 275279"
☐ High Concentration	[
Grab	West: 75° 31' 33,578530379"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	i
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	·
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	·
	'
☐ Duplicate Sample Taken	†
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	. '
1	_
coilected just to bank	
,	
collected continue TALMENT	. *
, many	
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Plone

SEDIMENT SAMPLE LOG SHEET

Collected from the eastern side mudflat of

the Brandywine Creek.

SITE NAME: 12th Street Land Fill Site

PCS No.: 6187	•	DATE: <u>2/22/2000</u>
WEATHER: Sunny, mild, 50°F, a	nd breezy	
SATA PERSONNEL: (b) (4)		
		
Sample Method: Hand auger and	a	Color: C
disposable plastic trowel.		Color: Grayish - black
Depth Sampled:5-7 inches below	v creek	Description:
bed surface.	_	
Sample Date and Time: 2/22/200	0 at 0950	Silfy Clay
Sampled by: (b) (4)		
Signature(s): Pant D		•
pine 25		
Sample Type		GPS Coordinates:
Low Concentration		North: 39° 44' 12.185"
☐ High Concentration		
Grab		West: 75° 31' 33.579'
☐ 5-Point Composite		
	eservative	Sample Location Map:
☐ TCL VOAs	4° C	
☐ TCL SVOAs	4° C	
☐ TCL Pesticides/PCBs	4° C	·
☐ TAL Metals	4° C	·
☐ Cyanide	4° C	
DNREC XRF Instrument	4° C	
☐ Lead only	4° C_	
		,
☐ Duplicate Sample Taken	. <u></u> .	
Observations and Notes:		

Sample No.	
MINDIE NO.	

ON CHAR

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site

PCS No.: 6187

Observations and Notes:

the Brandywine Creek.

Collected from the eastern side mudflat of

SATA REGION III

SAMPLE No.: 15-5ED - 23 B

DATE: <u>2/22/2000</u>

WEATHER: <u>Sunny, mild, 50°F, and breezy</u> SATA PERSONNEL: (b) (4)	
SATA PERSONNEL.	
Sample Method: Hand auger and a disposable plastic trowel.	Color: Grayish - black
Depth Sampled: 11-13 inches below creek	Description:
bed surface.	
Sample Date and Time: 2/22/2000 at 1000	Silty Chay.
(6) (4)	,
Sampled by: (b) (4)	4
Signature(s): Pune Das	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 12, 185"
High Concentration	
Grab	West: 75° 31′ 33, 579′′
5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C]
☐ TAL Metals 4° C]
☐ Cyanide 4° C	<u>.</u>
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken]

Sampl	e i	No.		
JOH	•		 	

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 73-5E0-24
PCS No.: 6090	DATE: <u>1/ /2/2000</u>
WEATHER: Partly Sunny, cool, 400,	6.1224
SATA PERSONNEL: (b) (4)	

	· · · · · · · · · · · · · · · · · · ·
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Grayet Sund
Sample Date and Time: 1/iz/2000	•
@ 0925	medium sub anglitar publicy
Sampled by: (b) (4)	
	` '
Signature(s):	
faulm. Das	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 11.84878442''
☐ High Concentration	
Grab	West: 75° 31' 33,693509556"
5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	·
	'
, , ,	
(QUREC 0.14)	
Duplicate Sample Taken FD -06	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
and Diane, mile disease.	
L. W. Ind. a. I.	
- collected next to riprapline	4
	·
<u> </u>	

SATA REGION III SEDIMENT SAMPLE LOG SHEET SAMPLE No.: 75-SED 24 A SITE NAME: 12th Street Land Fill Site DATE: 2/22/2000 PCS No.: 6187 WEATHER: Sunny, mild, 50°F, and breezy SATA PERSONNEL: (b) (4) Color: Sample Method: Hand auger and a Brown disposable plastic trowel. Description: Depth Sampled: 5-7 inches below creek bed surface. Silty very time grained Sample Date and Time: 2/22/2000 at 1010 Sampled by: Signature(s): **GPS Coordinates:** Sample Type North: 320 44' 11.849" Low Concentration ☐ High Concentration West: 75° 31' 33.694' Grab ☐ 5-Point Composite Sample Location Map: **Preservative** Analysis 4° C ☐ TCL VOAs 4° C ☐ TCL SVOAs ☐ TCL Pesticides/PCBs 4° C 4° C ☐ TAL Metals 4° C ☐ Cvanide 4° C DNREC XRF Instrument 4° C ☐ Lead only ☐ Duplicate Sample Taken Observations and Notes: Collected from the eastern side mudflat of the Brandywine Creek.

Sampl	e No.	
Sampl	e No.	

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 73-SED-JYB
PCS No.: 6187	DATE: <u>2/22/2000</u>
WEATHER: Sunny, mild, 50°F, and breezy	
SATA PERSONNEL: (b) (4)	

Sample Method: Hand auger and a	Color: Brown
disposable plastic trowel.	
Depth Sampled: 11-13 inches below creek	Description:
bed surface.	
Sample Date and Time: 2/22/2000 at 1015	Silty very first grained
	Sand
Sampled by: (b) (4)	Sand.
Signature(s): Paul D	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 11.849"
☐ High Concentration	
Grab	West: 75° 31′ 33.694"
5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	N. C.
☐ TAL Metals 4° C	
☐ Cyanide 4° C	·
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	÷
Observations and Notes:	
Object vactoris and recess	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
lie Braidywille Creek.	
	•

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: TS-JEO-25
PCS No.: 6090	DATE: 1/ / 2/2000
WEATHER: Partly Song, cool, 400	bicezy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dark Brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	
Sample Date and Time: 1/12/2000	Sandy Silt
@ 0935	very small rounded quarte
Sampled by: (b) (4)	July John Goartz
	pebbies
Signature(s):	
faul m. S	CDO Co. History
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 11.611 35979"
High Concentration	West: 75° 31' 33,54/224431"
Grab 5-Point Composite	West. 73 37 337377221437
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	Sample Location Map.
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	·
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	·
☐ Duplicate Sample Taken	
Observations and Notes:	,
Collected from the eastern side mudflat of	
the Brandywine Creek.	ļ
- collected west to secretion	
The state of the s	
	·

OPIGNAL

SEDIMENT SAMPLE LOG SHEET

SATA REGION III

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 13-5ED 25A
PCS No.: 6187	DATE: <u>2/22/2000</u>
WEATHER: Sunny, mild, 50°F, and breezy	
SATA PERSONNEL. (b) (4)	

Sample Method: Hand auger and a disposable plastic trowel.	Color: Grayisi, - black
Depth Sampled: 5-7 inches below creek	Description:
bed surface.	
Sample Date and Time: 2/22/2000 at 1025	Silty Clay.
Sampled by: (b) (4)	0
Signature(s): Part Q	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 11,611''
☐ High Concentration	,
Grab	West: 75° 31' 33, 541'
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	·
☐ TCL SVOAs 4° C	•.
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	·
	,
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
the Brandy wine crook.	
	·

Sample No.

OFICINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site

PCS No.: 6187

SATA REGION III

SAMPLE No.: TS-SED-25B

DATE: <u>2/22/2000</u>

Sample No.___

WEATHER: Sunny, mild, 50°F, and breezy	·
SATA PERSONNEL: (b) (4)	
Sample Method: Hand auger and a	Color:
disposable plastic trowel.	Grayish - black
Depth Sampled: 11-13 inches below creek	Description:
bed surface.	cile de
Sample Date and Time: 2/22/2000 at 635	Silty Clay.
(b) (4)	
Sampled by: (b) (4)	
Signature(s):	
Sample Type	GPS Coordinates:
Low Concentration	North: 390 44' 11,611"
High Concentration	
Grab	West: 75° 31′ 33.541″
5-Point Composite	Sample Logation Man:
Analysis Preservative ☐ TCL VOAs 4° C	Sample Location Map:
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Lead only 4° C	
☐ Duplicate Sample Taken	·
Observations and Notes:	
Collected from the eastern side mudflat of	. ,
the Brandywine Creek.	·
, .	
	,
. <u> </u>	

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-3@-26
PCS No.: 6090	DATE: <u>1/ 12 /2000</u>
WEATHER: Partly Sonay, Cosi, 400, 6	celly_
SATA PERSONNEL: (b) (4)	

C 1 M (1 1 D) while wheth two well	Color:
Sample Method: Disposable plastic trowel	
and disposable aluminum pan.	Dark brownish-gray
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Sandy Clay
Sample Date and Time: 1/12/2000	: · · · · · · · · · · · · · · · · · · ·
@ 0940	0.14 Smeil
Sampled by: (b) (4)	Sough rounded pebbly
Signature(s):	
fami Dis	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 11,406105216"
☐ High Concentration	
Grab	West: 75° 31' 33.597529813''
5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	·
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4º C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	·
DIVINEE AND INSTRUMENT 4 C	
D. Dunlingto Comming Tolory	•
☐ Duplicate Sample Taken	
Observations and Notes:	·
Collected from the eastern side mudflat of	·
the Brandywine Creek.	,
- collected next to riprapline	·
	·

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 27 - 27
PCS No.: 6090	DATE: <u>1//z /2000</u>
WEATHER: Partly Sunny (00)	donce = 1, 40°
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	■ **
Depth Sampled: 0 to 6 inches below creek	Dark brown - grad Description:
bed surface, during low tide.	1
Sample Date and Time: 1/12/2000	clay
Sample Date and Time. 1/12/2000	•
Sampled by: P(b) (4)	
Sampled by. Per Co	·
Signature(s):	
fant m. De	·
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 11. 223333844'
☐ High Concentration	
Grab	West: 75° 31' 33.35 9894155"
5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	•
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	·
DNREC XRF Instrument 4° C	
	, '
	·
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
collected and it	
- collected next to bank	
	•

OPIGINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site

SATA REGION III

SAMPLE No.: <u>75-5E0-27</u>

PCS No.: 6090	DATE: <u>1//2/2000</u>
WEATHER: Partly Sunny Cool,	40°; hreezed
SATA PERSONNEL: (b) (4)	
Sample Méthod: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dark brown-gray
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	clay
Sample Date and Time: 1/12/2000	
W 0950	r
Sampled by: (b) (4)	
(b) (4)	
Signature(s):	
Paul m. Dr	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 11.2233333844'
☐ High Concentration	<u>.</u>
Grab	West: 75° 31′ 33.35 8894155"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	•
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
☐ DNREC XRF Instrument 4° C	·
Lead only 4° C	
	•
	·
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
, ·	
Confirmation analysis.	
	,
CLP No.: MCYJ66	
- collected Net to bank	

Sample No._

ON GRAN

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-360-28
PCS No.: 6090	DATE: <u>1/ / Z/2000</u>
WEATHER: Partly Sugary, cool,	40°, 61424
SATA PERSONNEL: (b) (4)	·

	· · · · · · · · · · · · · · · · · · ·
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Description: Silfy Clay
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Sity Class
Sample Date and Time: 1/12/2000	
@ 1000	
Sampled by: (b) (4)	·
Signature(s):	•
Paul m. wix	
Sample Type	GPS Coordinates:
Low Concentration	North: 35° 44' 10.920525636"
☐ High Concentration	
Grab	West: 75° 31′ 33.438338372"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide • 4° C	
DNREC XRF Instrument 4° C	
	,
☐ Duplicate Sample Taken	· ·
Observations and Notes:	
Collected from the eastern side mudflat of	,
the Brandywine Creek.	
Lange, et al.	
- coilected next to ripraplin	K .
+ POILLE K. K. (National TAI will in be	
- collected Confirm TALMENTS +	
SYOA here	
FEOILLE CONTINUE TALMENTS F	
SVOA here	

OPIGINAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: TS-SED-20
PCS No.: <u>6090</u>	DATE: <u>1/12</u> –/2000
WEATHER: Partly Sunny Cool, 400,	bieczy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan. Depth Sampled: 0 to 6 inches below creek	Description: Silty Clay
bed surface.	Description.
	Silty Clay
Sample Date and Time: 1/12/2000	J
Sampled by: (b) (4)	
Sampled by.	
Signature(s):	
foul De-	
Sample Type	GPS Coordinates:
Low Concentration	
☐ High Concentration	North: 39° 44' 10.920525636"
Grab	West: 75° 31' 33.438338372"
5-Point Composite	1.60 15 31 32. 138 338 312
Analysis Preservative	Sample Location Map:
☐ TCL VOAs . 4° C	2000p. 2000000 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
TAL Metals 4° C	
☐ Cyanide 4° C	
☐ DNREC XRF Instrument 4° C	
☐ Lead only 4° C.	· ·
	· ·
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek collected NK+ to reprepend	
- collected NK+ PD repring	•
CLP No.: MCY J67 / CX661	
	· :
Background-Sample.	

Sample	No.	

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <i>TS-JEO-29</i>
PCS No.: 6090	DATE: 1//2/2000
WEATHER: Partly Sunat, cool, 400,	breez-1
SATA PERSONNEL: (b) (4)	√

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dark graf
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	clay
Sample Date and Time: 1/12/2000	
@ 1010	
Sampled by: P(b) (4)	
	·
Signature(s):	•
fand no	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 10.640661054"
☐ High Concentration	
Grab	West: 75° 31' 33.266847256''
5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	· · ·
☐ TCL Pesticides/PCBs 4° C	·
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
☐ Duplicate Sample Taken	·
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	•
the Brandy wine Creek.	·
- collected next to bank	,
Dan to	•
corrected continue macmetals	
COLLECTED CONTITION THE MENUES	
nere	,

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site

SATA REGION III

SAMPLE No.: 75-5'E0-29

PCS No.: 6090	DATE: 1/ /2_/2000
WEATHER: Partly Sunny, Cool, SATA PERSONNEL: (b) (4)	400, 612024
SATA PERSONNEL: (b) (4)	
Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dark 9.4x. Description:
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Clay
Sample Date and Time: 1/12/2000	J
@ 1010	
Sampled by: (b) (4)	
Signature(s):	
Parl m 5	GPS Coordinates:
Sample Type Low Concentration	·
☐ High Concentration	North: 390 44' 10.640661054"
Grab	West: 75° 31′ 33.260847256″
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	· · · · · · · · · · · · · · · · · · ·
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
☐ DNREC XRF Instrument 4° C	·
Lead only (TAL meters) 4° C	
	`
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
Confirmation analysis.	
CLP No. : MCYJ 68	<u>.</u>
CLP No. : ///C/3 66	
corrected next to bank	
2011.01.01	

Sample No.

DISMIAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 15-3 E0-30
PCS No.: <u>6090</u>	DATE: 1/ (2/2000)
WEATHER: Partly Sunny, Cool, 40°.	breezy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Description: Organic clayer surt (roots)
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Organic clause suit
Sample Date and Time: 1/12 /2000	(care)
€ 1020	[(2.73)
Sampled by: (b) (4)	
	,
Signature(s):	
Paul 25	
Sample Type	GPS Coordinates:
Low Concentration	North: 390 44' 10.4230189 46"
High Concentration	
Grab	West: 75° 31′ 33.448616155"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C.	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	
`	
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
Land the Alath to a second	
collected Mxt to riprap	·
Ine	
·	
·	

PARAMAN

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: <u>75 - 3</u> /
PCS No.: 6090	DATE: <u>1/12/2000</u>
WEATHER: Partly Sund, lost, 400;	b.reezy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	Dark brown
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	silty clay
Sample Date and Time: 1/12 /2000	- / -
@ 1030	
Sampled by: P(b) (4)	
	·
Signature(s):	·
Paul W	CDC Coordinates
Sample Type	West GPS Coordinates: North: 75° 31' 33.612707221"
Low Concentration	North: 13° 31' 33.612707221
High Concentration	
Grab	West. 390 44' 06,97169749"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	·
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	. ′
DNREC XRF Instrument 4° C	
	1
☐ Duplicate Sample Taken	
Observations and Notes:	
Collected from the eastern side mudflat of	
the Brandywine Creek.	
- Collected and to bankless	· ·
- willeted next to spragtent	<u>'</u>
1	

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 73 SED 32
PCS No.: 6090	DATE: <u>1/ /2/2000</u>
WEATHER: Partly Sunny, Cool,	40°, 6,4821
SATA PERSONNEL: (b) (4)	

	0.1
Sample Method: Disposable plastic trowel	Color: Brown
and disposable aluminum pan.	
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	Sity clay
Sample Date and Time: 1/12/2000	
@ 1035	,
Sampled by: P(b) (4)	_
Signature(s):	
Paul of DE	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 06.575836069"
☐ High Concentration	
Grab	West: 75° 31' 33.9480318''
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	,
☐ TCL Pesticides/PCBs 4° C	**
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C]
	1
	1
☐ Duplicate Sample Taken]
Observations and Notes:	
Collected from the eastern side mudflat of	
- collected next to rigrapline	
- enclocked confirm our mitish	,
Carree in the property of the make the property of the propert	
1	
the Brandywine Creek. - collected sext to ripsup line - collected confirm TAL metals he	L

PAIGNAL

SEDIMENT SAMPLE LOG SHEET SATA REGION III SITE NAME: 12th Street Land Fill Site SAMPLE No .: 75-5E0-32 DATE: 1/ 12/2000 PCS No.: 6090 Cloudy, lastly Song, Cool, 42°, besery. WEATHER: SATA PERSONNEL: Sample Method: Disposable plastic trowel Color: Dark Brown and disposable aluminum pan. Description: Depth Sampled: 0 to 6 inches below creek bed surface, during low tide. Silty clay Sample Date and Time: 1/12/2000 @ 1035 Sampled by: P(b) (4) Signature(s): faul m. **GPS Coordinates:** Sample Type North: 39° 44' 06.575836069" Low Concentration ☐ High Concentration West: 75° 31' 33,9480318" Grab ☐ 5-Point Composite Sample Location Map: Preservative **Analysis** 4° C ☐ TCL VOAs 4° C ☐ TCL SVOAs 4° C ☐ TCL Pesticides/PCBs 4° C ☐ TAL Metals 4° C ☐ Cyanide ☐ DNREC XRF Instrument 4° C 4° C Lead only ☐ Duplicate Sample Taken **Observations and Notes:** Collected from the eastern side mudflat of the Brandywine Creek. Confirmation analysis. CLP No.: - collected NX+ to riprapline

OFIGNAL

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75 5E0-33
PCS No.: 6090	DATE: 1/12/2000
WEATHER: Partly Sunny, Cool, 400,	6:2224
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel and disposable aluminum pan.	Color: Duric bivun to gray
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	· ·
Sample Date and Time: 1/12/2000	5.14 Clay
Sampled by: (b) (4)	
Signature(s)	
fund Das	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 05.12005601"
☐ High Concentration	
Grab	West: 15° 31' 34. 702667475"
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	
☐ TCL Pesticides/PCBs 4° C	
☐ TAL Metals 4° C	
☐ Cyanide 4° C	
DNREC XRF Instrument 4° C	1
	,
	1
☐ Duplicate Sample Taken	·
Observations and Notes:	•
Collected from the eastern side mudflat of	
the Brandywine Creek.	·
- Culticled Next to many	.

SEDIMENT SAMPLE LOG SHEET

SITE NAME: 12th Street Land Fill Site	SAMPLE No.: 75-3E0-34
PCS No.: 6090	DATE: 1/12/2000
WEATHER: Party Sund, Cool, 400,	breezy
SATA PERSONNEL: (b) (4)	

Sample Method: Disposable plastic trowel	Color:
and disposable aluminum pan.	
Depth Sampled: 0 to 6 inches below creek	Description:
bed surface, during low tide.	
Sample Date and Time: 1/12/2000	
@1055	
Sampled by: (b) (4)	·
<i>a A a</i>)	
Paul De	
Sample Type	GPS Coordinates:
Low Concentration	North: 39° 44' 04.582684326"
☐ High Concentration	West: 75° 31′ 34.788613838′
Grab	West: 15 31 39.188613838
☐ 5-Point Composite	
Analysis Preservative	Sample Location Map:
☐ TCL VOAs 4° C	
☐ TCL SVOAs 4° C	•
☐ TCL Pesticides/PCBs 4° C	•
☐ TAL Metals 4° C	
☐ TAL Metals 4° C ☐ Cyanide 4° C	
☐ TAL Metals 4° C	
☐ TAL Metals 4° C ☐ Cyanide 4° C	
☐ TAL Metals 4° C ☐ Cyanide 4° C	
☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C	
☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken	
☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Dupservations and Notes:	
☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of	
☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Dupservations and Notes:	
☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of the Brandywine Creek.	
☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of	
☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of the Brandywine Creek.	
☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of the Brandywine Creek.	
☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of the Brandywine Creek.	
☐ TAL Metals 4° C ☐ Cyanide 4° C ☐ DNREC XRF Instrument 4° C ☐ Duplicate Sample Taken ☐ Duplicate Sample Taken Collected from the eastern side mudflat of the Brandywine Creek.	

ATTACHMENT 2 SAMPLE DATA SUMMARY

OPICINAL

GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)

CODES RELATED TO **DENTIFICATION**

(confidence concerning presence or absence of analytes):

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

(NO CODE) = Confirmed identification.

- B = Not detected substantially above the level reported in laboratory or field blanks.
- R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

CODES RELATED TO OUANTITATION

(can be used for both positive results and sample quantitation limits):

- J = Analyte Present. Reported value may not be accurate or precise.
- K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- [] = Analyte present. As values approach the IDL the quantitation may not be accurate.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.
- UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

-1-of-8- OPIGINAL

Case #: 27734

Site:

SDG: MCYJ52

12TH STREET LANDFILL

Number of Soil Samples: 16

Lab.: SWOK Number of Water Samples: 0

MCYJ52 MCYJ54 MCYJ55 MCYJ56 Sample Number: MCYJ53 TS-SED-07 / TS-SED-10 V TS-SED-15 ₩ TS-SED-17 Sampling Location: TS-SED-11-Soil Soit Matrix: Soil Soil Soil Units: ma/Ka ma/Ka mg/Kg mg/Kg mg/Kg 01/11/2000 Date Sampled: 01/11/2000 01/11/2000 01/11/2000 01/11/2000 10:12 10:45 10:35 11:10 11:35 Time Sampled: 66.5 59.7 69.4 64.7 %Solids: 64.7 Dilution Factor: 1.0 / 5.0 1.0 1.0 1.0 1.0 FIELD DUP OF MCYJ96 Flag ANALYTE CRDL Flag Result Flag Result Flag Result Flag Result Result 12200 14000 J **ALUMINUM 4**0 4240 11700 j 10900 .1 UL [1.4] **ANTIMONY** 12 [6.9] Ŀ [2.1] L },L: UL 9.7 ARSENIC -2 23.0 62.1 9.5 6.7 J. 70.7 86.5 . J BARIUM 40 527 . 114 80.1 J: J. J [0.73]**BERYLLIUM** [0.54][0.88][0.81] [0.95](0.55) CADMIUM 1 4.6 [1.1] [1.2] [0.73] 1000 2910 J 3230 2700 CALCIUM 2820 3420 J 49.2 , J 40.3 J. CHROMIUM 2 68.8 J 160 42.7 J COBALT 10 [12.3] [13.1] [8.2] [12.7] [9.5] 19.8 COPPER 5 799 79.3 J. 202 21.2 ្ស 26300 22700 38600 IRON 20 39200 26100 ٠J J + 19500 277 181 J 48£ LEAD 0.6 .J... 508 1000 3850 3910 5470 4380 **MAGNESIUM** 1530 251 239 MANGANESE. 3 952 408 293 0.30 В 0.14 В 0.1 2.8 [0.12]В MERCURY 1.5 23.4 17.9 21.8 27.4 23.4 NICKEL: 8 1560 1930 1000 [357] [1400] 1560 POTASSIUM UL: 1.8 Ŀ [1.4] L SELENIUM 2.1 L 4.9 1 2 SILVER 5.6 [856] J 1000 [479] [806] [745] [708] J SODIUM THALLIUM 2 [1.5] 37.0 36.9 21.2 35.5. 34.6 VANADIUM 10 81.3 117 1350 259 224 ZINC

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Revised 09/99

+ = Results reported from diluted analysis.

Page _3_ of _8_ O

Case #: 27734

SDG: MCYJ52

Site:

12TH STREET LANDFILL

Lab.:

SWOK

Sample Number :		MCYJ62		MCYJ64		MCYJ65	,	MCYJ66		MCYJ67	
Sampling Location :		TS-SS-12 V	/	TS-SED-19	v'	TS-SED-23	/	TS-SED-27	/	TS-SED-28	
Matrix :		Soil .		Soil		Soil		Soil		Soil	
Units:		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :		01/11/2000		01/12/2000		01/12/2000		01/12/2000		01/12/2000	
Time Sampled :		15:15		08:50		09:18		09:50		10:00	
%Solids :		76.9		64.7		59.5		65.1		62.7	
Dilution Factor :		1.0 / 5.0		1.0		1.0		1.0		1.0	
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Fiag	-Result	Flag
ALUMINUM	40	14300	٦	13400	J	9560	J	13900	J	22400	J
ANTIMONY	12.	[1.9]	L		UL	[1.9]	∯,L		UL	[0.85]	, L
ARSENIC	2	23.5		4.7		56.9		11.0		9.7	<u>.</u>
BARIUM	40 -	265	្រែ	66.3	J.,	89.6		92.0		99.9	J
BERYLLIUM	1	[0.30]		[0.70]	İ	[0.51]	l	[0.77]	! .	[1.1]	l
CADMIUM	1	6.1		[0.59]	53) 53)	2.2	第 。	(0.98)		[0.99]	
CALCIUM	1000	8740	J	3480	J	3990		3290	J.	4440	J
CHROMIUM	2	88.4	j∵J∵i	38.3	, J	114	. ل	51.5	. J	65.5	, J
COBALT	10	[10.6]		[8.1]	ŀ	[13.2]	33.767	[12.3]		17.8	25.00
COPPER	5	549	}} J :	10.8	, J.	403	ું 🕽	21.3	. J		≨,J⊘
IRON ·	20	28600		21200		34600	Parks 1	20900	1 .	27200	
*LEAD	0.6	7780	J	21.6	: Ja	3170.	: J:	36.6	j	29.2	J.
MAGNESIUM	1000	3180	Section 1	5280	l	2670	L. 105	5280		6610	. Notes of Select
MANGANESE	3	582		191		397	(2) (2) (2)	1915		306	
MERCURY	0.1	0.21	В	[0.10]	В	0.48	В	0.13	В	[0.12]	В
NICKEL ·	- 8	49.3		17.5	3.5 2.5	60.0		22.8	: ·	30.2	
POTASSIUM	1000	[929]		1670		[956]		2070		2390	
SELENIUM	· 1	2.5) L	[89.0]	ş L	4.4	g die		UL		UL
SILVER	2	[0.53]				[0.46]		recent or the	l.		
SODIUM	1000	[539]	J	[758]	J	[510]	J	[703]	, J	[746]	J
THALLIUM	2			ł				[1.2]	l	[1.7]	Į.
VANADIUM	10	33.6	1	36.7		32.0	ľ	38.1		51.3	1
ZINC	4	+ 2900	J	67.1	J	1200	J	199	J	199	J

CRDL = Contract Required Detection Limit + = Result reported from diluted analysis.

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Case #: 27734

SDG: MCYJ52

Site:

12TH STREET LANDFILL

Lab. :

SWOK

Sample Number :		MCYJ68		<u> </u>							
Sampling Location :		TS-SED-29]				*	
Matrix :		Soil				!					
Units:		mg/Kg		1		l					
Date Sampled :		01/12/2000				· ·					
Time Sampled :		10:10				•					
%Solids :	• •	63.3		Ĭ.				1		ļ	
Dilution Factor :		1.0								j	
				<u>. </u>							
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	-Result	Flag
ALUMINUM	40	13700	J						l		1
ANTIMONY	12.		UL		SART Y		in and the			di.	
ARSENIC	2	9.2		North Colors	in and a	Monara i ni kacita	Nam 1 devezi	paropeot, br May a h	Emeloide fe		.
BARIUM	40	87.7									
BERYLLIUM November 1	1	[0.84]	er year.	المارة والمارة والمارة	15.小春气:	erio de la composición de la composición de la composición de la composición de la composición de la composición	÷ijarai a	Bag A Caraly 15	turgita ka d	gali u sa 11 i	Į.,
CADMIUM	1 1	[0.91]					State of the		9		
CALCIUM	1000	3080	J				ü.				
CHROMIUM	2	46.5	≓°J;		, j.			,			
COBALT	10	16.8	e e vi	Na strans	29 V 1			int agair , 22 agair	et e		
COPPER	5	18.4	. J:	and district		, i akai			Še.a.		
IRON *LEAD	20	28300	S. E.	ger Ringin og e				ote a			
MAGNESIUM	0.6 1000	26.5 5880	. J.	Kitanga sang sa	art.	1	. N. 111				
MANGANESE	3	311	544		ggrayes				98.74.4	Maria I	erry e
MERCURY	0.1	[0.15]	В		la circ O		17.40.00.00	MOTEUR		F 1.47,	1
NICKEL	8	24.5				Santal part	\$3A			Stages 1	h .
POTASSIUM	1000	2230			dana.	Company of the second	ration of	A. 3	12.5		
SELENIUM	1000	[1.1]	e Es						(\$44.24 91] 4 4	· .
SILVER	2							-	· .		•
SODIUM	1000	[728]	" ij".	erigeren in. Entr	ye.	strika pagan	900	My to the			
THALLIUM	2	[`	ľ · · · ·]					Ī
VANADIUM	10	36.9						ř.	ŀ		1
ZINC	4	135	J	[1	1	l	<u> </u>	

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Page __5__ of __8__

Case #: 27734 .

SDG: MCYJ69

Number of Soil Samples: 15

Site:

12TH STREET LANDFILL

Number of Water Samples: 1

Lab.:

SWOK

Sample Number: Sampling Location: Matrix: Units: Date Sampled: Time Sampled: %Solids: Dilution Factor:		MCYJ69 TS-SS-13 × Soil mg/Kg 01/12/2000 12:30 61.7 1.0		MCYJ70 TS-SS-15 ~ Soil mg/Kg 01/12/2000 12:45 65.6 1.0 / 5.0		MCYJ71 TS-SS-17 ** Soil mg/Kg 01/12/2000 13:00 73.0 1.0 / 5.0		MCYJ72 TS-SS-18 Soil mg/Kg 01/12/2000 13:10 67.8 1.0 / 5.0		MCYJ73 TS-SS-21 Soil mg/Kg 01/12/2000 13:30 59.5 1.0 / 5.0	
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flac
ALUMINUM	40	12700	J	16500	J	15700	J	15100	J	14800	J

				<u> </u>						1.	
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	40	12700	J	16500	J	15700	٦	15100	J	14800	J
ANTIMONY	12	[5.6]	\$ L	[7.5]	L.	[8.3]	e 🕒	[8.6]	L.	[8.0]	L
ARSENIC	2	47.7		86.9		. 105		93.7		83.6	
BARIUM	40:	165		224		431		213	7	204	
BERYLLIUM	1	[0.55]	l .	[0.64]	İ	[0.58]		[0.53]		[0. 56]	1
CADMIUM	1	4.5	^ .	6.3		8.4		7.3		6.0	
CALCIUM	1000	9640		8800		20900		15300		8520	
CHROMIUM	2	202	K	237	. K≝i	586	K	392	к	: 310:	"K
COBALT	10	- 66.1	J	95.5	J	114	J	102	J	96.9	J
COPPER	5.5	252		330		493	8 3 B	374		348	
IRON	20	77800	J.	+ 98100	, J	+ 112000	J	+ 100000	J	+ 102000	J
1EAD.	0.6	3660		1690		7790		3970		2400	
MAGNESIUM	1000	4360		4950	ŀ	4590	İ	4860		4330	l
MANGANESE	3	433		471		631		616		468	•
MERCURY	0.1	0.35	В	0.29	В	0.42	В	0. 37	В	0.29	В
NICKEL	8	40.2	J	39.4	J.	. 40.8	J	46.3	J	115	J
POTASSIUM	1000	1750	J	2480	J	1580	J	1680	J _.	2260	J
SELENIUM	. 1	12.2	,:	11.2		16.5		14.3		12.3	
SILVER	2	[1.1]		[1.9]		[2.3]		[1.9]		[1.6]	
SODIUM	1000	[440]	: J	[498]	J.	[538]	J	[484]	J	[521]	i J
THALLIUM	2	6.6	İ	6.2		8.3	I	· 7. 1		7.1	l
-VANADIUM -	10	46.3		51.1		53.0	ŀ	48.6		51.8	
ZINC	4	1590	J	2270	J	+ 3030_	J	2280	J	2120	J

CRDL = Contract Required Detection Limit + = Results reported from diluted analysis.

t Required Detection Limit *Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Page __6__ of __8__

Case #: 27734

SDG: MCYJ69

Site:

12TH STREET LANDFILL

Lab.:

SWOK

Sample Number :		MCYJ74		MCYJ75		MCYJ76		MCYJ77		MCYJ78	
Sampling Location :		TS-SS-24 -	/	TS-SB-05 ~	/	TS-SB-12		TS-SB-04 7		TS-SB-08 7	
Matrix :		Soil		Soil .		Soil		Soil		Soil	
Units:		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :		01/12/2000		01/13/2000		01/13/2000		01/13/2000		01/13/2000	
Time Sampled :		13:50		09:15		10:45		08:50		10:15	
%Solids :		62.4		74.5		84.3		75.1		77.1	
Dilution Factor :		1.0		1.0 / 5.0		1.0		1.0 / 5.0		1.0 / 5.0	
		,,,		7.07 0.0		'''		11070.0			
										}	
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	~Result	Flag
ALUMINUM	40	2250	7	21100	7	8370	٦	21800	J	12200	J
ANTIMONY	12	[1.2]	В	[7.8]	Ľ	[2.0]	В	[8.7]	, Egi	[3.4]	L
ARSENIC	2	12.2		99.8		17.7		107	l	60.7	
BARIUM	40	[33.0]		344		49.5		830		266	
BERYLLIUM	1			[0.77]		[0.53]		[0.56]		[0.43]	ĺ.
CADMIUM	1	[0.83]		8.5		[0.89]		12.2	i ; .	4.7	
CALCIUM	1000	2670		15300		1430		34300		11700	l
CHROMIUM	2	41.3	` K `.	385	K	47.8	· K	441	K	157	K
COBALT	10	[12.5]	J	81.2	J	19.1	J	105	J	31.5	J
COPPER	5	46.7		385		48.3		528≟		370	
IRON	20	13400	J	+ 140000	J	27800	J	+ 121000	J	40000	J
*LEAD	0.6	521		4630	S	94.3		14200		+ 22300	
MAGNESIUM	1000	[1380]		5630		2610		7000		3000	L
MANGANESE	3	68.6		705		226		774		477	
MERCURY	0.1	0.40	В	0.30	В	[0.09]	В	0.29	В	0.31	В
NICKEL	8	[4.9]	* B %	71.4	ૈં J	17.6	J	49.4	J	62.4	j j
POTASSIUM	1000	[286]	J	2010	J	[1100]	J	1560	J	[898]	J
SELENIUM	1	1.8	ĸ	13.8		2.1	K	13.1	意 `	4.7	
SILVER	2	[0.36]		[1.6]				[2.3]	•	[1.2]	l.
SODIUM	1000	[72.4]	В	[581]	J	[339]	J	[709]	J	[476]	J
THALLIUM	2	[2.3]		9.9		[1.6]	•	7.9	[[2.1]	
VANADIUM	10	[8.4]		62.9		25.5		62.8		41.7	(1.2) 1.0
ZINC	4	352	1	+ 3260	j	229		+ 5360	1 .	+ 2870	1

CRDL = Contract Required Detection Limit

+ = Results reported from diluted analysis.

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Page _7_ of _8_ Prof

Case #: 27734

SDG: MCYJ69

Site:

12TH STREET LANDFILL

Lab.:

SWOK

Sample Number :		MCYJ93		MCYJ94		MCYJ95		MCYJ96		MCYJ97	
Sampling Location :		TS-BG-01	,	TS-BG-02	, ·	TS-BG-03		TS-FD-01.		TS-FD-02	
Matrix:		Soil		Soil		Soil		Soil		Soil	
Units:		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :		01/13/2000		01/13/2000		01/13/2000		01/11/2000		01/11/2000	
Time Sampled :		12:50		12:55		13:00		00:00		00:00	•
%Solids :		68.7		79.5		82.0		59.9		70.0	
Dilution Factor :		1.0		1,0		1.0		1.0		1.0 / 10.0	
								FIELD DUP	OF	FIELD DUP	OF
								MCYJ55		MCYJ58	
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	~Result	Flag
ALUMINUM	40	19600	7	16900	7	19900	, J	24700	J	21600	J
ANTIMONY	12	[1.2]	. B.~	[2.9]	L	[1.8]	L.	[2.0]	L	[7.3]	L
ARSENIC	2	3.4	κ	8.5		5.3		6.3	K	71.6	
BARIUM	40	142		153		144		107	1	490	×
BERYLLIUM	1	[0.81]		[0.67]		[0.70]		[1.0]	1.	[0.55]	
CADMIUM	1	[0.48]		[1,1]		[0.70]		[0.67]	ř	6.3	<i>y</i> .
CALCIUM	1000	2240		1900		1610		4480		14400	
CHROMIUM	2	39.7	K	62.1	. K⊝	48.4	K	61.8	κ	159	2. K
COBALT	10	[10.0]	J	14.3	J	14.7	با	[15.6]	J	51.7	J
COPPER	5	23.9		80.2		42.9		17.6	5	321	
IRON	20	20200	J	28100	J	28600	J	35500	J	+ 82800	J
*LEAD	0.6	31.4		174	4,000	75.2		81.0	1	+ 73000	
MAGNESIUM	1000	3910	l	3690	ŀ	3620	l .	7600	i	4490	
MANGANESE	3.	430	isy-m Si	600	10 A	1030		293		512	
MERCURY	0.1	[0.10]	В	0.62	İ	0.26	В	0.22	В	0.33	В
NICKEL	8	23.1	έŋ.	29.0	J	23.9	j	28.6	Ĵ	49.6	J
POTASSIUM	1000	1580	J	1840	J	1300	J	3640	J	2590	J
SELENIUM	× 1			[0.91]	· K	[0.79]	∷K ·	[1.2]	₹ K	8.9	
SILVER	2			[0.26]	l			1		[1.3]	
SODIUM	1000	[460]	Ţij.	[350]	J	[320]	J	[749]	J	[849]	J
THALLIUM	2		•	[1.4]		[1.1]		[2.2]		4.7	l
VANADIUM (1	10	52.6		64.9	÷ .	58.1		56.6		49.4	Į
ZINC	4	75.3	Ĵ	168	J	95.0	J	120	J_	+ 4890	j

CRDL = Contract Required Detection Limit + = Results reported from diluted analysis.

L = Contract Required Detection Limit *Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Case #: 27734

SDG: MCYJ69

Site:

12TH STREET LANDFILL

Lab.:

swok

Sample Number : Sampling Location :		MCYJ79 TS-RB-01									
Matrix:		Water									1
Units :		ug/L									
Date Sampled :		01/13/2000				j		1			
Time Sampled :		11:30				٠.	-	i			
%Solids :		0.0		1							
Dilution Factor :	•	1.0		İ		<u>,</u>		Ì			·
		RINSATE B	LANK	ĺ				l			
				1							j
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	~Result	Flag
ALUMINUM	200	[10.6]	В								
ANTIMONY	60				S (1)		Spainte			556 ·	
*ARSENIC	10		١.				6.5. 3.4	Company of the Control of the		Carrier 19 oc	1 1
BARIUM	200	2	7	7 7		Barga Millandi (1999) Bar					
BERYLLIUM	5	r e e	N. 79		1		salar .	N. S.A. II.	1		arsibi.
*CADMIUM	5		Š.		ļ · · · · ·						
CALCIUM	5000	[44.1]	В	an e			ang ang r	Big oping in the state		kida u susia kan	100 (1) (1)
*CHROMIUM	10	14.5		ľ		A STATE OF			Servicial		race in
COBALT	50 2 5		3 m (4) 3 m (4)		(Fnka	d Williams	en et	Berganian'n			
IRON	100	100.51	<u> </u>		37.54		ŠAS.		\$7'\v\\\		
*LEAD	3	[80.5]	Najstra		320 d 350 e		155 C. S. S. S.		2. N. W.		
MAGNESIUM	5000	[15.0]	art yell	A Subject to	land teach	A THE CONTRACT	Difference	Sanson Co	r(**)	Afficial Control of the Control of t	948.85°°
MANGANESE	15	[10.0]	1873. J	and the second	Sp. Tay		Saleti.		ğrağ wi	Gergan :	
MERCURY	0.2	0.20	ĸ	l. •*	1	NAME OF THE PARTY	e. 915ki	ing the state of t	Parker in	100	
NICKEL	40	[4.9]	(A)		***	\$-1-145 _, }@					AFFER S MACH MACH
POTASSIUM	5000				i .		China de la ca			7	1
SELENIUM	5		\$5. ···			# + 1 - T = 1			發表的		
SILVER	10			Ī			,				
SODIUM	5000	[66.2]	2710 2710	ė.			\$25000 P			St.	
THALLIUM	10			·			1	l	I		
VANADIUM	50			, ·		· ·	85 (\$ 1 16 (\$ 1)			фет 5 . 1 Біс 1	
ZINC	20	[5.3]	_8				<u> </u>		<u> </u>	! 	<u> </u>

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

EPA	SAMPLE	NE INI	?^
BG-	-04	~ ~	

Name: COMPUCHEM		Contract:		BG-04
				CDC N- D1141
Lab Code: LIBRTY Ca	ase No.:	SAS No.:	<u> </u>	SDG No.: R1141_
Matrix (soil/water): SOI			Lab Sample	e ID: R1141-4
Level (low/med): LOW			Date Rece	ived: 02/15/00
% Solids: _81	.5			
Concentration	n Units (ug,	/L or mg/kg dry	y weight):	MG/KG
CAS No. 7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0	Antimony_ Arsenic_ Barium_ Beryllium Cadmium_ Calcium_ Chromium_ Cobalt_ Copper_ Iron_ Lead_ Magnesium Manganese Mercury_ Nickel_ Potassium Selenium_ Silver_ Sodium_	0.44 1120 49.6 6.1 28.7 23000 29.2 3770 179 2.0 15.7	N	M
7440-62-2 7440-66-6	· ·	35.3		P_ P_

Color Before:	BROWN	Clarity Be	efore:	Texture: COARS
Color After:	YELLOW	Clarity Af	fter:	Artifacts:
Comments:				·
	· _ · · · · · · · · · · · · · · · · · ·			

EPA	SAMPLE	ON GIALA
SS-	-34	

b Name: COMPI	JCHEM		Contract:		SS-34
Lab Code: LIBR	ry Cas	se No.:	SAS No.	:	SDG No.: R1141_
Matrix (soil/wa	ater): SOIL	_ ·		Lab Samp	le ID: R1141-1
Level (low/med)): LOW_			Date Rece	eived: 02/15/00
% Solids:	_70.	2			
Cor	ncentration	Units (ug/	L or mg/kg dry	y weight)	: MG/KG
	CAS No.	Analyte	Concentration	C Q	M
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-96-5 7439-96-5 7439-96-5 7439-97-6 7440-02-0 7440-02-0 7440-23-5 7440-23-5 7440-28-0 7440-66-6	Aluminum_ Antimony_ Arsenic_ Barium_ Beryllium Cadmium_ Calcium_ Chromium_ Cobalt_ Copper_ Iron_ Lead_ Magnesium Manganese Mercury_ Nickel_ Potassium Selenium_ Silver_ Sodium_ Thallium_ Vanadium_ Zinc_ ————————————————————————————————————	13900 2.0 73.9 172 0.68 4.0 9700 298 62.3 2990 61700 7350 4320 498 0.18 71.6 1700 9.6 1.1 65.8 11.3 43.2 1900	B	
Color Before:	BROWN	Clari	ty Before:		Texture: COARSI
Color After:	YELLOW	Clari	ty After:		Artifacts:
Comments:					

ΞPA	SAMPLE	NO GA
ΞPA	SAMPLE	NO. MA

	i.			
INORGANIC	ANALYSES	DATA	SHEET	

Do Name: COMPU	JCHEM	;	Contract:		· .	SS-35	
Lab Code: LIBR		se No.:	SAS No.:			SDG No.: 1	R1141_
Matrix (soil/wa	ater): SOIL	_		Lal	b Sampl	e ID: R114	1-2
Level (low/med)	LOW_	_		Da	te Rece	eived: 02/1	5/00
% Solids:	_77.3	1	,				
Cor	ncentration	Ünits (ug,	/L or mg/kg dry	7 W	eight):	: (MG∠KG	
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0 7440-66-6	Antimony_Arsenic_Barium_Beryllium_Cadmium_Calcium_Chromium_Cobalt_Copper_Iron_Lead_Magnesium_ManganeseMercury_Nickel_Potassium_Selenium_Silver_Sodium_Thallium_Vanadium_	6.3 13100 289 72.1 405 75000 13400 3350 464 0.41 89.9 1140 6.1 1.7 38.4 13.1	B	N		
Color Before:	BROWN	Clari	ty Before:			Texture:	COARSE
Color After:	YELLOW	Clari	ty After:			Artifacts:	
Comments:							

EPA	SAMPLE	ONG NEW
SS-	-36	

ab Name: COMF	NICHEM	1	Contract:			SS-36	
Lab Code: LIBR			SAS No.:	:		SDG No.:	R1141_
Matrix (soil/w	vater): SOIL			Lab	Sampl	e ID: R114	11-3
Level (low/med	l): LOW_	<u> </u>		Date	Rece	eived: 02/1	L5/00
% Solids:	_76.	4			•		
Co	ncentration	Units (ug	/L or mg/kg dry	/ wei	ght):	MG≠KG	
•	CAS No.	Analyte	Concentration	C.	Q ·	М	
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-95-4 7439-97-6 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0 7440-66-6	Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	2.9 10200 121 8.7 1080 42100 22600 2710 561 0.12 83.6	B			
Color Before:	BROWN	Clari	ty Before:			Texture:	MEDIUM
Colcr After:	YELLOW	Clari	ty After:			Artifacts	:
Comments:							

EPA	SAMPLE	NOGA	la,
SS-	- 3 7	-	≪ .

			•			
b Name: COMP	UCHEM		Contract:	·	SS-37	
Lab Code: LIBR	.TY Ca.	se No.:	SAS No.	:	SDG No.: I	R1141_
Matrix (soil/w	ater): SOIL			Lab Samp	le ID: R1141	1-5
Level (low/med	LOW_	_		Date Rec	eived: 02/19	5/00
% Solids:	_80.	1	-			
Co	ncentration	Units (ug,	/L or mg/kg dry	y weight)	: MG/KG	
	CAS No.	Analyte	Concentration	C Q	М	
	7429-90-5 7440-36-0 7440-38-2 7440-41-7 7440-43-9 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-95-4 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-02-0 7440-23-5 7440-28-0 7440-66-6	Aluminum_ Antimony_ Arsenic_ Barium Beryllium Cadmium_ Calcium_ Chromium_ Cobalt_ Copper_ Iron Lead Magnesium Manganese Mercury_ Nickel_ Potassium Selenium_ Silver_ Sodium_ Thallium_ Vanadium_ Zinc_	5830 0.71 17.4 98.0 0.43 1.0 1990 45.4 16.8 60.4 22100 566 1870 185 0.09 15.6 725 1.4 0.17 36.6 4.6 25.3 551			
Color Before:	BROWN	Clari	ty Before:	·	Texture:	MEDIU
Color After:	YELLOW	Clari	ty After:		Artifacts:	
Comments:						
<u> </u>				•		

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Case #: 27734

SDG: MCYJ52

Site:

12TH STREET LANDFILL

Lab.:

SWOK

Sample Number :		MCYJ57		MCYJ58		MCYJ59		MCYJ60		MCYJ61	
Sampling Location :		TS-SS-08 V	,	TS-SS-09 V	/	TS-SS-10 ~	ı,	TS-SED-14		TS-SED-18	/
Matrix:		Soil		Soil		Soil		Soil		Soil	
Units:		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :		01/11/2000		01/11/2000		01/11/2000		01/12/2000	•	01/12/2000	
Time Sampled :		14:15		14:30		14:50		08:25		08:35	
%Solids :		70.4		71.7		77.0		63.1		64.6	
Dilution Factor :		1.0		1.0 / 5.0		1.0		1.0		1.0	
				FIELD DUP	OF						
•				MCYJ97				İ		ļ	
ANALYTE	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	~Result	Flag
ALUMINUM	40	9530	J	14600	J	10700	J	11600	J	11200	J
ANTIMONY	12	[4.1]	Ŀ	[1.8]	L	[2.8]	L		UL	[1.3]	L
ARSENIC	2	107		50.2		86.5		4.6	1	29.2	
BARIUM	40	269	J	587	J	270	J	63.8	. J	153	J
BERYLLIUM	1	[0.42]		[0.39]		[0.36]		[0.65]	1	[1,1]	
CADMIUM	1 1	5.9	400 4,	4.6		4.7	Ĭ.	[0.48]	36	2.6	mar.
CALCIUM	1000	9310	j	18100	J	21400	J	[1400]	J	3350	J
CHROMIUM	2	232	ં	185	j.	759	J	33.9	J	84.4	J
COBALT	10	59.0		25.6		36.1		[6.6]		19.9	l
COPPER	5	440	j j	264	ુ J ∴	291	J	10.2	• J**:	1810.	္ဗ်
IRON	20	64800		33500		36700		18000	L	38700	1:
TEAD	0.6	6890	ີ່ມ	+ 33500	J	9330	J	14.9	√ J	5620	្រ
MAGNESIUM	1000	3590		4090		3520		4120	l	3760	
MANGANESE	3	493		390	\$	496		177	#	1600	\$2. 2.
MERCURY	0.1	0.28	В	0.38	В	0.43	В	0.19	В	0.55	В
NICKEL	. 8	43.8	4.4	36.5		23.2		15.5	1,427	37.9	
POTASSIUM	1000	[1240]		[1270]	· ·	[1030]		[1380]	l	[1280]	
SELENIUM	. 1	11.0		7.1		11.7			UL	4.6	
SILVER	2	[1.8]		[1.1]	l	[1.2]		l	1	[0.42]	
SODIUM	1000	[464]	^ j	[542]	~j	[389]	J	[720]	J.	[786]	J
THALLIUM	2	[2.2]		[1.6]	l	[1.5]]	1
VANADIUM	10	45.5		37.4		34.5	. '	32.3	l	38.2 ⁻	
ZINC ·	4	2550	j	+ 4280	J	2350	J	56.6	J_	1000	J

CRDL = Contract Required Detection Limit

+ = Results reported from diluted analysis.

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

Site Name: EPA 12 St. Drum 5.1c

Sampling Date: 2/22/00

DATA SUMMARY FORM: INORGANICS X-RAY FLUORESCENCE (XRI) Test Pit Soil Samples ing/kg

Sample Number	75-5EL	2													->	
Sample Location	11A		118		[5A	,	15B		18 A		183		23A		23B	
Analyle	////		,,,		/37				/ / //		. 705		25/7		مر ص	l
Anlimony				Γ				П	<u> </u>	Г	ļ					_
Arsenic						┪		\vdash		-						-
Rarium						 		<u> </u>			 					
Cadmium						1		 		 	<u> </u>					-
Calcium							1	1				 				-
-bremium						1	 			 						-
L'olait								 		1—						-
celeter.								 		 				$\vdash \vdash$		├
ron								 		-						-
lead	20.4		756		16.3	_	37.7	 	176		49,5	-	28.8			-
Manganese									118	 	-7//3	-	50.0	-		_
Mercury								i —		┢						_
Nickel								i								
Selenium					,					_						_
Silver										 -						-
Thallium									 			_				
Vanadium			_					1				_		-		\vdash
Zinc									 	_						

Site Name: EPA 125t. Orem Site
Sampling Dale: 2/22/or

DATA SUMMARY FORM: INORGANICS X-RAY FLUORESCENCE (XRI) Test Pit Soil Samples ing/kg

Sample Number	TSSED-			1-3				
Sample Number Sample Location	244	248	259	25B				
Analyte			•	•	,			
Anlimony			1		1			. 1
Arsenic	· .							1
Parium					1		 	
Cadmium			1		 			
Calcium		1	1		 		 	
Chremium		1						
Celuii				-1	 			
Cepper		1	 		 			
Iron		1	 		 		 	
\cad	104	80.4	978	18.7	 			
Manganese		1			 			
Mercury					1			
Nickel								
Selenium								
Silver								
Thalliom					1			
Vanadium					1			
Zinc					1			

Site Name: 12 St. Drum, SITE

Sampling Dale: 1/13/99

DATA SUMMARY FORM: INORGANICS
X-RAY FLUORESCENCE (XRI)
Test Pit Soil Samples
mg/kg

Sample Number			<u> </u>	T				
Sample Location	755533	755B12	TSSS JA	755530	T558//	TSB64	758G3	TSBG 2
Analyle				1 ·		ļ		•
Antimony	Ĭ,							T
λr ∞ nic				1.				1
Parium						 		1
Cadmium						1		
L'alcium					1	† 		
Chronium				11				
Coluit								
Lepper			 	 	1			
LCu			 	 	1	 	7 7	
Lead	232	98.3	35.4	43.6	28,600	5140	70.7	159
Manganese						1-22-1-		757
Mercury								1
Nickel				 	1			
Selenisum								1
Silver	1							1
Thallium								1
Vanadium						1 1		1
Zinc			1	1	1			1

Site Name: 1252. Drum Sitc

Sampling Date: 1/13/99

DATA SUMMARY FORM: INORGANICS X-RAY FLUORESCENCE (XRI) Test l'it Soil Samples mg/kg

Sample	Number												
Sample	Location	T55B9		TSBG1	,	TSB6	کی	TSSB8	-	<i>75586</i>	T55B7	755529	135528
Analyte	ľ							•	ļ		"""]
Antimony					1								
Arsenic													
Barium			\neg										
Cadmium													
Calcium													
Chremium													,
L'oluit													
Copper			\Box										
ren					7								
cad	ر.	3950		41.6		2980		7760		1380	5350	75.2	1150
Manganese													
Mercury													[[
Nickel			<u>.</u>										
Selenium				·							T		
Silver		}											
Thallium													
Yanadium													
Zinc													



r, 04/12

Site Name: 1252. Drum 5.te

Sampling Date:

1/13/99

DATA SUMMARY FORM: INORGANICS
X-RAY FLUORESCENCE (XRI)
Test Pit Soil Samples
mg/kg

Sample Numb	cr										
Sample Location	m 75553/	755810	TSFO	7							
Analyte						}	<u> </u>		,		
Anlimony									 		Τ
\r:senic											
larium											 Π
?admiuni											 Т
Talcium		_							· · · · · · · · · · · · · · · · · · ·		 \top
hremium							1				T
लेखी											Τ
crper											\top
rn.											 1
rad	297	5010	2970								T
langanese											
lercury						· ·					L
lic kel						•					Γ
elenium		· ·									Т
ilver			,		[-						Τ
hallium										I	 \mathbf{I}
anadium								1		}	Т
Linc									1	$\overline{}$	7

Site Name: 12 St. Orum

Sampling Date: 1/12/99

DATA SUMMARY FORM: INORGANICS
X-RAY FLUORESCENCE (XRI)
Test Pit Soil Samples
mg/kg

Sample Number		·		3				
Sample Location	TSSS16	1556029	TSS&018	7555/3	135514	755515	TESEDZZ	7556028
Analyte			<u> </u>					ļ
Antimony			<u> </u>		<u> </u>			
Arsenie					<u> </u>		<u> </u>	<u> </u>
กมทาย								
Cadmiuni								
Lalcium								
Chromium								
L'oluli								
cpper					1			
lren								
Lead .	2970	21.1	1140	1770	1330	1670	22.9	68.9
Manganese								
Mercury								
Nickel								
Selenium						-		
Silver			1					
Thallium			1					
Yanadium	<u> </u>							
Zinc			 	<u> </u>				

Site Name: /2H/ St. Orumn
Sampling Date: //12/99

DATA SUMMARY FORM: INORGANICS X-KAY FLUORESCENCE (XRF) Test Pit Soil Samples mg/kg

	Sample Number		, 											· ·	7	
	Sample Location	ocation 7556031		TSSE023		TSSE022		TSSE03L		1550027		T35E012		TSSEDIF	13560	30
Analyle			,	ļ			,									
Anlimony			_													T
Arsenic			<u> </u>													1
Rarium	···		<u> </u>													1
Cadmium								, .								+
Calcium																1-
Chromium						T								-		+-
Cebalt													-			+-
Cepper	-			-						<u> </u>		-	_		- 	+-
lcen								-					1	-	-}	╁~
lead		20.2		2990		96.3	 	38.5	_	29,0		53.8		14.9	24,5	+
Manganese			1			75.3		20.3	_	~//		00.6		100	1970)	+
Mercury			T												- 	+
Nickel						<u> </u>			_				\vdash			┼
Sclenium			Γ_		\vdash				_		$\vdash \vdash$		 			+
Silver			\Box		\vdash		_		-				\vdash			╁
Ihallium			\vdash		_				_	 						+
Vanadium					 	 		 		 					+	+
Zinc			1			 				 				·		╁─

Site Name: 12 5t Orum Sampling Date: 1/12/99

DATA SUMMARY FORM: INORGANICS X-RAY FLUORESCENCE (XRI) Test Pil Soil Samples mg/kg

	Sample Number													-	
	Sample Location	755E02	26	75SE02	2/	735519									
Analyte								•							
Anlimony									1						
Arsenic			1						1						
Harium															
Cadmiuni						<u> </u>			•						T
Calcium															
Chremina								·	1						
Celuli										1					
Cepper															
Iren															
lead		387		55.7		3480									
Manganese															
Mercury											 		<u> </u>		
Nickel			1				L					<u> </u>		<u> </u>	
Selenium .															
Silver															
Thallium															
Vanadium								I							
Zinc			Π					1							T

Site Name: /2/// 51. Dr. Win

Sampling Date: //12/49

DATA SUMMARY FORM: INORGANICS X-RAY FLUORESCENCE (XRF) Test Fit Soil Samples mg/kg

Sample Number					-		i			• • •				
Sample Location	15552	.0	75526	75525	_	T557.7		T35/7	72	5574		T55521	T5522	2_
Analyte,	Ì			l				,,,,,		<i></i>		7334	1	
Anlimony			T	 -		II								
Arsenic	Ī													
Rarium														
Cadmium														
Calcium														
Chromium	1													
Celult														
Cepper			. 1								-1			
lren						[[$I_{}$
lead	3140		125	3250		716		2720	-22	870		2090	7/40	<u> </u>
Manganese														L
Mercury														
Nickel	T				Ì					<u> </u>			<u> </u>	
Selenium			1		Ī .									
Silver				Ī	Ĭ									
Thallium														
Vanadium	1	1												
Zinc	•													

Site Name: 1256 Down

. Sampling Date: 1/12/9/9

DATA SUMMARY FORM: INORGANICS X-RAY FLUORESCENCE (XRI) "Test Pit Soil Samples mg/kg

Sample Number	er .							
Sample Locatio	n 755523	7352025	75518	755E034	TSFUL	TSSEDZY	TSSEDIG	T556020
Analyte						/	1	
Antimony								
Arsenic					1			
Barium								1
Cadmium								
Calcium								
Chremium								
Coluit								
Copper								
lren	T							1
cad	2660	2420	2340	943	796	463	30.8	33.9
Manganese								
Mercury								
Nickel								
Selenium								
Silver				,			1	1
Thallium	1	- -			(1
'anadium	1						1	1
Zinc			<u> </u>	<u> </u>	 	 	1	

Note: Uevaled levels of iron in samples may result in increased cobalt readings.

Devaled levels of lead in samples may result in increased arsenic readings.

ANOIHO



EXECUTIVE SUMMARY

The following summarizes the results of chronic exposure bioassays during March 2000 on soil samples provided by Roy F. Weston, Incorporated of Delran, New Jersey. Soils were evaluated using the earthworm, *Eisenia foetida*.

Station Number	ESI Suffix	Exposure (Days)	Mean Survival (%)	Significantly Different from Laboratory Control - B?
Laboratory Control - A (Artificial Soil)		14	74.0	-
Laboratory Control - B (Organic Compost)	-	14	93.0	- -
"SS-34"	-1	14	72.0	Yes
"SS-35"	-2	14	72.0	Yes
"SS-36 "	-3	14	84.0	No
"SS-37 "	-4	14	85.0	No
"BG-04"	-5	14	83.0	No

Authorized Signature: \(\lambda \lambda \tau \tau \)

EnviroSystems, Incorporated

/2000

ATTACHMENT 3
PHOTOGRAPH LOG



Photograph Log 12th Street Landfill Site Wilmington, New Castle Co., Delaware



Date Taken: Photographer: 12 January 2000 Region III SATA

Description:

SATA conducting subsurface soil sampling with hand auger.



Date Taken: Photographer: 12 January 2000 Region III SATA

Description:

River bank in the Area of Concern, facing north.



Photograph Log 12th Street Landfill Site Wilmington, New Castle Co., Delaware



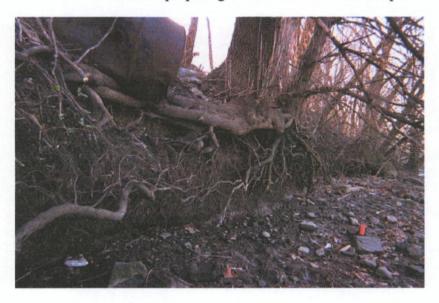
Date Taken: Photographer:

12 January 2000 Region III SATA

Description:

Brandywine creek mudflat during low tide facing north. SATA

member is preparing to collect a sediment sample.



Date Taken:

12 January 2000

Photographer:

Region III SATA

Description:

Brandywine Creek bank with exposed drums in view.